3/20/15

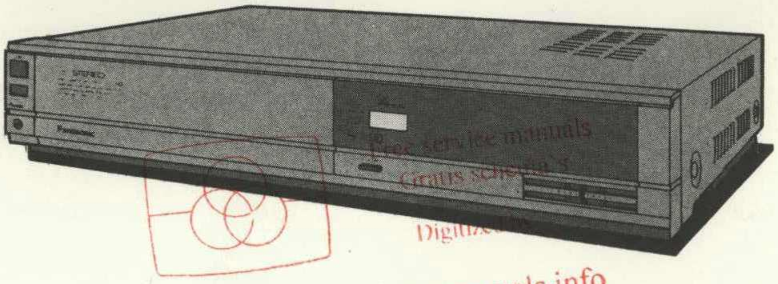
Service Manual

Video Cassette Recorder

Panasonic VHS Hi-Fi HQ
PAL

NV-H75 EO EV

General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List



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SPECIFICATIONS

ITEM	SPECIFICATION
POWER	SOURCE: 220 V 50/60 Hz
	CONSUMPTION: 29 watts
RECORDING SYSTEM	2 rotary heads, helical scanning system
	PAL
TV TUNER SYSTEM	VHF: CHE2~CHU10 (PAL B) 75Ω unbalanced UHF: CH21~CH69 (PAL G) 75Ω unbalanced
RF OUT SYSTEM	UHF: CH36±4 (PAL G) 70^{+2}_{-3}dBμ, 75Ω terminated
VIDEO	HEADS: 4 rotary heads 1 pair for recording, playback (L-R heads) 1 pair for trick play (L′-R′ heads)
	INPUT: VIDEO IN Connector (BNC type) 1.0 Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0 Vp-p, 75Ω terminated
	OUTPUT: VIDEO OUT Connector (BNC type) 1.0 Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0 Vp-p, 75Ω terminated
AUDIO	HEAD: 1 Stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)
	INPUT: AUDIO IN Connector (Phono type) More than −10 dBV (316 mV), more than 50 kΩ EURO AV Connector (21 pin) More than −10 dBV (316 mV), more than 10 kΩ

ITEM	SPECIFICATION
AUDIO	OUTPUT: AUDIO OUT Connector (Phono type) −8 dBV (400 mV), Less than 1 kΩ EURO AV Connector (21 pin) −6 dBV (500 mV), Less than 1 kΩ HEAD PHONE Jack −30 dBV, 8Ω
	TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
TAPE FORMAT	VHS Cassette tape (Tape width 12.7 mm)
TAPE SPEED	23.39 mm/s Record/Playback Time: 4 hours with 240 min. type tape FF/REW Time 5.5 min. with 180 min. type tape
DIMENSIONS	430(W) × 82(H) × 357(D) mm
WEIGHT	5.9 kg
STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red remote controller 2 pc. Audio Cables 1 pc. Digital Scanner Case 1 pc. Digital Scanner 1 pc. Programme sheet 1 pc. AC Mains Lead 1 pc. Cleaning Brush

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.

Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.

Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.

In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.

Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...

Section 4 contains exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

CONTENTS

SECTION 1

GENERAL DESCRIPTIONS 1-1
1-1. FEATURES 1-1
1-2. CONTROLS & COMPONENTS 1-2
1-3. PROGRAMMABLE REMOTE CONTROLLER 1-4
1-4. VPS (VIDEO PROGRAMME SYSTEM) (NV-H75EV) 1-5
1-5. VHS INDEX SEARCH SYSTEM 1-6
1-6. INTRO SCAN FUNCTION 1-7

SECTION 2

ADJUSTMENT PROCEDURES 2-1
2-1. MECHANICAL ADJUSTMENT PROCEDURES 2-1
2-2. DISASSEMBLY METHOD 2-1
2-3. REPLACEMENT OF THE CYLINDER UNIT 2-6
2-4. ELECTRICAL ADJUSTMENT PROCEDURES 2-9

SECTION 3

BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS 3-1
3-1. SYSTEM CONTROL BLOCK DIAGRAM 3-1
3-2. SERVO BLOCK DIAGRAM 3-4
3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM 3-7
3-4. Hi-Fi AUDIO BLOCK DIAGRAM 3-10
3-5. DECODER BLOCK DIAGRAM 3-13
3-6. POWER C.B.A. 3-15
3-7. POWER SCHEMATIC DIAGRAM 3-17
3-8. POWER SUPPLY Section In Main C.B.A. 3-19

3-9. SYSTEM CONTROL SCHEMATIC DIAGRAM 3-21
3-10. SYSTEM CONTROL Section In Main C.B.A. 3-25
3-11. SERVO Section In Main C.B.A. 3-28
3-12. CYLINDER DRIVE C.B.A. 3-30
3-13. SERVO PACK C.B.A. 3-31
3-14. SERVO SCHEMATIC DIAGRAM 3-32
3-15. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM 3-36
3-16. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM 3-38
3-17. LUMINANCE & CHROMINANCE Section In Main C.B.A. 3-41
3-18. LUMINANCE & CHROMINANCE PACK C.B.A. 3-43
3-19. INPUT/OUTPUT PACK & SUB INPUT/OUTPUT SCHEMATIC DIAGRAM 3-45
3-20. INPUT/OUTPUT PACK C.B.A. & SUB INPUT/OUTPUT C.B.A. 3-49
3-21. HEAD AMP SCHEMATIC DIAGRAM 3-51
3-22. HEAD AMP C.B.A. 3-53
3-23. AUDIO SCHEMATIC DIAGRAM 3-55
3-24. AUDIO Section In Main C.B.A. 3-57
3-25. Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM 3-60
3-26. Hi-Fi AUDIO PACK C.B.A. 3-63
3-27. CH SELECT SCHEMATIC DIAGRAM 3-65
3-28. CH SELECT Section In Main C.B.A. 3-67
3-29. OPERATION SCHEMATIC DIAGRAM 3-69
3-30. OPERATION C.B.A. 3-71
3-31. TIMER SCHEMATIC DIAGRAM 3-74
3-32. TIMER C.B.A. 3-77
3-33. TV DEMODULATOR SCHEMATIC DIAGRAM 3-80
3-34. TV DEMODULATOR INTERFACE C.B.A., TV DEMODULATOR C.B.A. & TUNER/ARU C.B.A. 3-83
3-35. VPS SCHEMATIC DIAGRAM (NV-H75EV) 3-86
3-36. VPS C.B.A. (NV-H75EV) 3-88
3-37. MAIN C.B.A. 3-89
3-38. RF CONVERTER SCHEMATIC DIAGRAM 3-92
3-39. RF CONVERTER C.B.A. 3-94
3-40. PROGRAMMABLE REMOTE CONTROLLER SCHEMATIC DIAGRAM 3-95
3-41. PROGRAMMABLE REMOTE CONTROLLER C.B.A. 3-96
3-42. DIGITAL SCANNER SCHEMATIC DIAGRAM 3-97
3-43. DIGITAL SCANNER C.B.A. 3-97
3-44. INTERCONNECTION SCHEMATIC DIAGRAM 3-99
3-45. ICs & TRs INFORMATION 3-102

SECTION 4

EXPLODED VIEWS & PARTS LIST 4-1
4-1. EXPLODED VIEW 4-1
  1. CHASSIS PARTS SECTION (1) 4-1
  2. CHASSIS PARTS SECTION (2) 4-2
  3. CASSETTE UP MECHANISM SECTION 4-3
  4. CASING PARTS SECTION 4-4
  5. PACKING PARTS SECTION 4-5
  6. PROGRAMMABLE REMOTE CONTROLLER UNIT 4-6
  7. DIGITAL SCANNER 4-7

MECHANICAL REPLACEMENT PARTS LIST
ELECTRICAL REPLACEMENT PARTS LIST

3/20/15

SECTION 1
GENERAL DESCRIPTIONS

1-1. FEATURES

1. 1-Month Calendar Timer

The clock/timer of the VTR is programmed with the calendar up to the end of 2002, so it knows exactly what day of the week it is on any given date. Programming of as many as 8 timer recordings is possible up to one month in advance.

2. VPS (Video Programme System) (NV-H75EV)

The Video Programme System is an extremely convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time is different from the scheduled time.

3. Auto Operation

The extremely convenient Auto Operation functions of this VTR include Auto Start and Auto Play when a recorded cassette is inserted, Auto Eject which indicates that an inserted cassette is not suitable for recording, Power-Off Eject for ejecting a cassette even with the VTR off, and Auto Rewind at the end of a tape. If the VTR On/Off Switch is pressed during the rewind mode including Auto Rewind, the VTR will eject the cassette and turn itself off when rewinding is completed.

4. Super OTR Function (One-Touch Timer Recording)

This convenient function makes it possible to easily programme the VTR for recording of TV programmes with immediate start or with start within 24 hours by precisely setting the starting time and ending time to the desired minute. When the recording ends, the VTR will automatically turn itself off.

5. HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

6. Lap Time Counter

The new Lap Time Counter is a great improvement over the approximate counter systems of conventional VTRs. It gives you an exact reading of the elapsed tape time in hours, minutes and seconds, and makes it easy to calculate the tape time left on a cassette.

7. Programmable Remote Controller

8. Digital Scanner

This Digital Scanner lets you programme timer recordings by tracing the corresponding bar codes on the supplied Programming Sheet and then transmitting the data to the VTR.

9. Time Search

It is possible to locate the desired scene directly by inputting the hour, minute and second of that scene.

10. VHS Index Search System

With the Index Search function, up to 20 addresses (places where an index signal is recorded) can be skipped to directly locate the beginning of the desired programme in forward or reverse direction in the Fast Forward or Rewind mode.

11. Intro Scan Function

The Intro Scan function plays back the first 10 seconds of each programme (recorded with index signal) on a tape one after another.

12. Hi-Fi Stereo System

13. Recording and Playback of Stereo, Bilingual and Monaural TV Programmes

The new hi-fi stereo system in combination with the built-in multiplex tuner can process audio two-channel as well as monaural signals for both recording and playback. Even if the TV set used is of the mono type, stereo or bilingual sound of recorded programmes or sound of TV programmes, being received on the VTR tuner and played back through the TV set can be reproduced via a connected hi-fi stereo system with external speakers.

14. Recording and Playback of "Simulcast" Sound

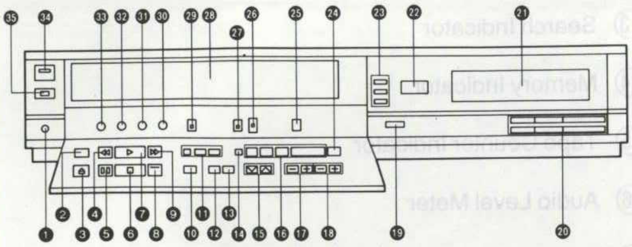
This VTR allows recording and playback of the stereo sound of TV programmes broadcast via "Simulcast" by connecting an FM tuner to the Audio Input Sockets.

15. Super Still, Super Still Advance and Double Super Fine Slow Playback

Super Still, Super Still Advance and Double Super Fine Slow Playback are possible with superb picture quality free from noise and jitter.

1-2. CONTROLS AND COMPONENTS

FRONT



① Headphones Socket

② Audio Playback Mode Selector

Audio playback mode selector can be used to select the desired sound mode. At the every push of this button, the audio playback mode changes as follows:

→STEREO→LEFT→RIGHT→NORMAL AUDIO→

For instance, when a bilingual, stereo or mono programme is received, the audio playback mode selector can be selected to the desired sound mode as shown below.

	Playback of Programmes Recorded on this VTR (or another VHS Hi-Fi Video Recorder)		
	Stereo Programmes	Bilingual Programmes	Mono Programmes
STEREO	Left+Right Channels(Stereo)	CH1 from Left CH2 from Right	Mono
LEFT	Left Channel	Channel 1 (Main)	Mono
RIGHT	Right Channel	Channel 2 (Sub)	Mono
NORMAL	Mono	Channel 1 (Main)	Mono

	Playback of Programmes Recorded on a Conventional VHS Stereo Video Recorder	
	Stereo Programmes	Bilingual Programmes
STEREO	———	———
LEFT	———	———
RIGHT	———	———
NORMAL	Left+Right Mixed	CH1+CH2 Mixed

③ Eject Button (⏏)

④ Rewind ◀◀/Review ⏪ Button

⑤ Pause/Still Button (▮▮)

⑥ Stop Button (■)

⑦ Play Button (▶)

⑧ Record Button (●)

⑨ Fast Forward ▶▶/Cue ⏩ Button

⑩ Euro AV Button

⑪ Tuner Set-up Controls

The tuner in the VTR can be preset with up to 32 stations.

VHF		UHF	
I	Ⅲ	H	U
E2–S3	M1–U10	———	21–69

⑫ Memory/Search Button

When this button is pressed once, the Memory Indicator "M" will light up, and when it is pressed one more time, the Search Indicator "S" will appear instead. When it is pressed a third time the Search Indicator "S" will disappear.

⑬ Reset/Index Button

⑭ Clock Button

⑮ Channel Selection Up and Down Buttons

⑯ Timer Controls

⑰ OTR On Buttons

⑱ OTR Off Buttons

⑲ Control Panel Open Button

⑳ Audio Rec Level Controls

㉑ Multi-Function Display

㉒ Infra-red Remote Control Receiver

㉓ Audio Recording Mode Indicators

㉔ VPS Button (NV-H75EV)

The VPS Button can be used which the TV programmes scheduled for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time is different from the scheduled time.

㉕ Timer Record Button

㉖ Input Signal Selector

㉗ **MPX Filter Switch**

If the sound is impaired by high frequency distortion when recording from an FM tuner, the MPX Filter Switch should be set to "On" position.

㉘ **Cassette Compartment**

㉙ **Edit Switch**

When the Dubbing (copying) from one video cassette to another VTR and receiving weak TV broadcasts from Tuner, the Edit Switch should be set to "On" position.

㉚ **Picture Sharpness Control**

㉛ **Slow Tracking Control**

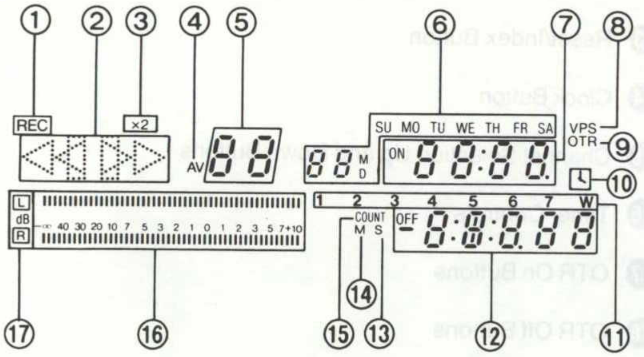
㉜ **Tracking Control**

㉝ **Headphones Output Level Control**

㉞ **VTR On/Off Switch with Indicator**

㉟ **Cassette-in Indicator**

MULTI-FUNCTION DISPLAY



① Recording Indicator

② Tape Running Display

③ Double Speed Indicator

④ Euro AV Indicator

⑤ Channel Display

⑥ Date Display

⑦ Clock Display

⑧ VPS Indicator (NV-H75EV)

⑨ OTR Indicator

⑩ Timer Recording Indicator

⑪ Timer Programme Number

⑫ Lap Time Counter

⑬ Search Indicator

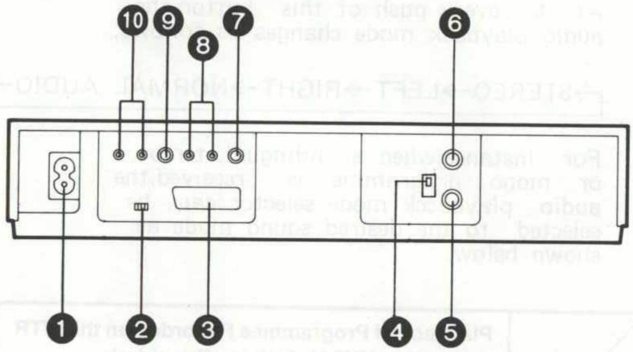
⑭ Memory Indicator

⑮ Tape Counter Indicator

⑯ Audio Level Meter

⑰ Audio Playback Mode Indicators

REAR



❶ **AC Mains Lead Socket**

❷ **Test Signal Switch**

❸ **Euro AV Socket**

❹ **RF Signal Level Switch**

Used to attenuate the reception of the VHS and/or UHF aerial signals.
If the reception is normal, set to "HIGH". If the signal is strong (stripes appear in the upper part of the picture), set to "LOW".

❺ **RF Input Socket**

❻ **RF Output Socket**

❼ **Video Output Socket**

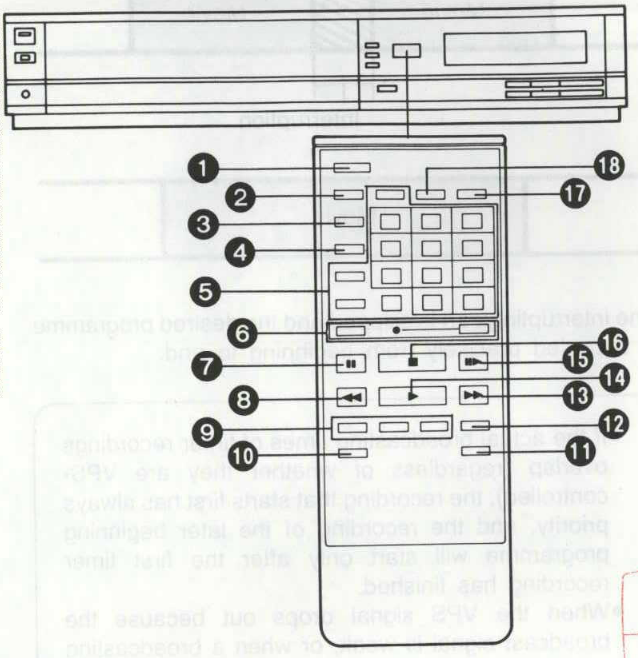
❽ **Audio Output Sockets**

❾ **Video Input Socket**

❿ **Audio Input Sockets**

1-3. PROGRAMMABLE REMOTE CONTROLLER

Unit Number: VEQ0615



① **VTR On/Off Button**

② **Audio Select Button**

③ **Memory/Search Button**

④ **Reset/Index Button**

⑤ **Timer Recording & Programme Position Selector (NV-H75EV) Buttons**

⑥ **Timer Recording Buttons**

⑦ **Pause/Still Button (II)**

⑧ **Rewind ◀◀/Review (◀◀) Button**

⑨ **Slow Buttons**

When this button is pressed, the unit will play back the tape in slow-motion at 1/10 of normal speed. The slow playback speed can be varied between 1/25 and 1/5 of normal speed by using the "+" and "−" Buttons.

⑩ **Reverse Play Button**

⑪ **Intro Scan Button**

⑫ **Double Speed Playback Button (×2)**

⑬ **Fast Forward ▶▶/Cue (▶▶) Button**

⑭ **Play Button (▶)**

⑮ **Still Advance Button (II▶)**

⑯ **Stop Button (■)**

⑰ **Time Search Button**

⑱ **+/− Button**

Note:

- The infra-red beam should be transmitted directly at the Infra-red Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver window in the VTR is about 60°.
- The unit should be used within a range of about 7 meters from the front of the VTR.

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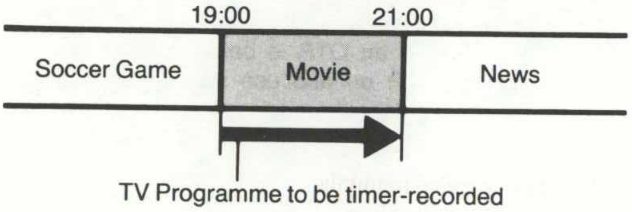
1-4. VPS (VIDEO PROGRAMME SYSTEM) (NV-H75EV)

The Video Programme System (VPS) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start or extension of the programme duration. Also, if a programme is interrupted and, for example, some special news are inserted, the recording will also be interrupted automatically and resumed when the programme continues.

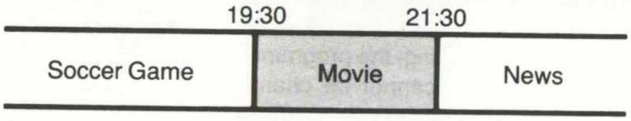
Example 1: Delayed Start of the Desired Programme

- **Programmed Start and End Times for Timer Recording**

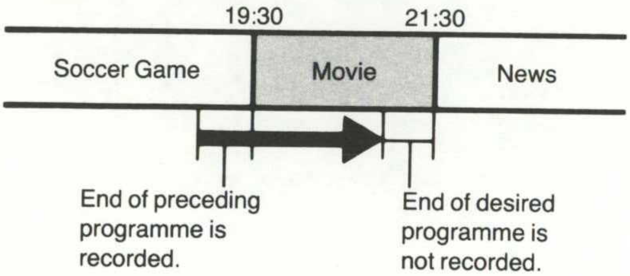


- **Actual Broadcasting Time**

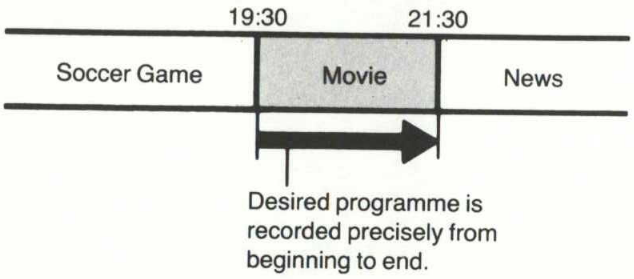
Soccer Game ends 30 minutes late.



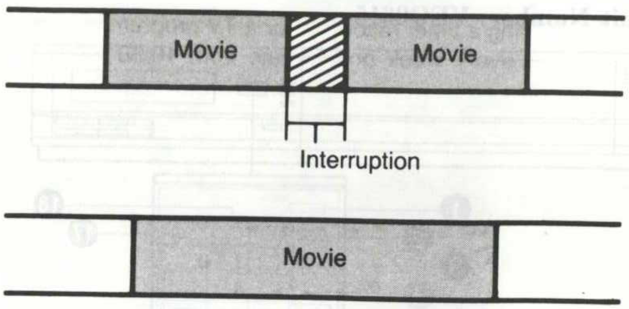
- **Recording Result without VPS**


19:30
21:30
Soccer Game
Movie
News
End of preceding programme is recorded.
End of desired programme is not recorded.

- **Recording Result with VPS**


19:30
21:30
Soccer Game
Movie
News
Desired programme is recorded precisely from beginning to end.

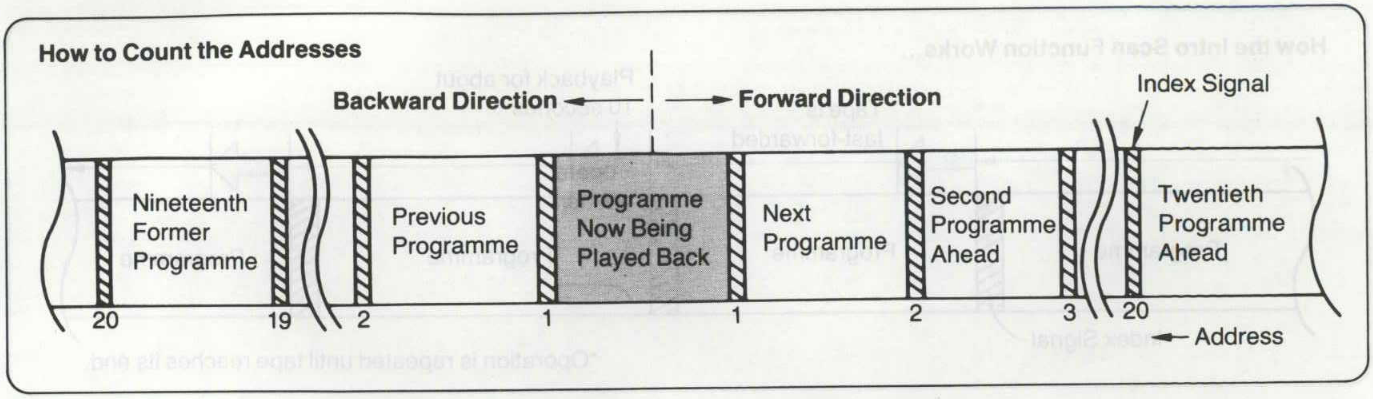
Example 1: Desired Programme is Interrupted



The interrupting part is skipped and the desired programme is recorded precisely from beginning to end.

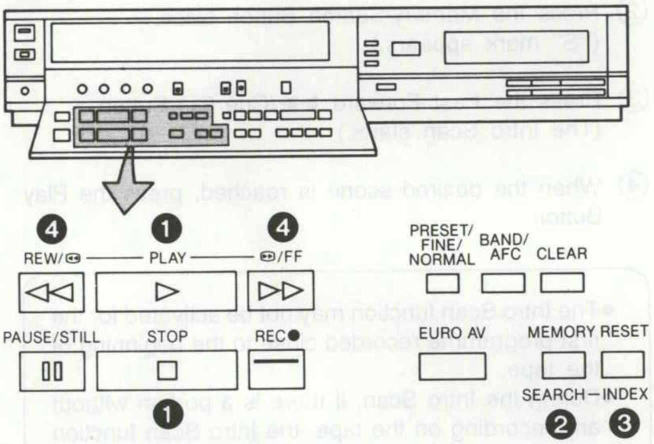
- If the actual broadcasting times of timer recordings overlap (regardless of whether they are VPS-controlled), the recording that starts first has always priority, and the recording of the later beginning programme will start only after the first timer recording has finished.
- When the VPS signal drops out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular VPS signal, the timer recording will be performed in the normal mode (without VPS) even if it was programmed for VPS.

1-5. VHS INDEX SEARCH SYSTEM



How to Count the Addresses

With the Index Search function, up to 20 addresses (places where an index signal is recorded) can be skipped to directly locate the beginning of the desired programme in forward or reverse direction in the Fast Forward or Rewind mode.

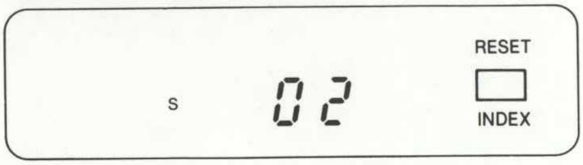


A special index signal (for use of the VHS Index Search function) is automatically recorded every time the Record Button is pressed. If you want to record an additional index signal during the recording of a programme, press the Record Button again at the desired point.

❶ Press the Play Button (▶) or Stop Button (■).

❷ Press the Memory/Search Button twice.
- The indication "S" appears on the Multi-Function Display.

❸ Repeatedly press the Reset/Index Button to select the desired address.
The number of the selected address is shown on the Multi-Function Display.



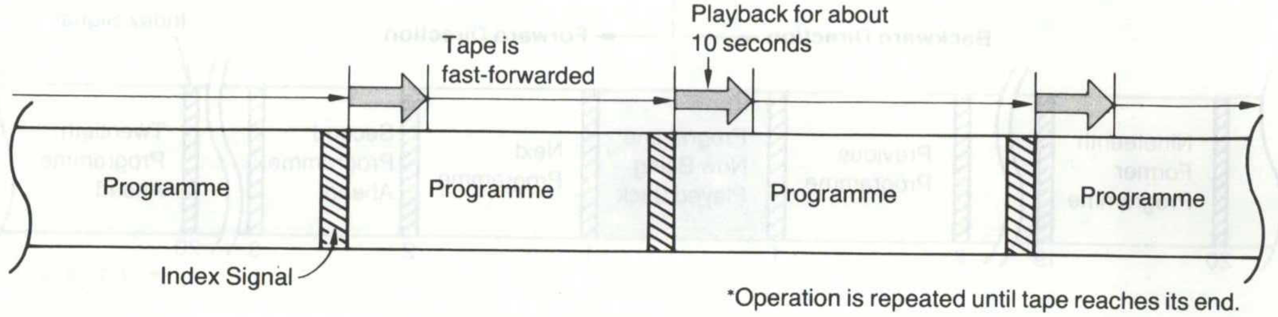
❹ Press the Rewind ◀◀/Review (◀◀) or Fast Forward ▶▶/Cue (▶▶) Button to start the VHS Index Search function (the VTR will switch to the rewind or fast-forward mode).

- Every time an index signal (address) is skipped the number in the Address Indication decreases by one.
- When the preset address is reached, the Tape Counter Indication will appear in place of the Address Indication, and the normal playback will start on other VTRs which do not have this function.
- To abort the Index Search function midway, press the Play or the Stop Button.

- If the recording is stopped temporarily by pressing the Pause Button and is later resumed the index signal will not be recorded at that position.
- It is impossible to record only index signals onto a tape that has already been recorded.
- If a tape position without any recording is passed during the Index Search function, that position may be counted as an address.
- The Index Search function can only count the addresses correctly, if the index signals are spaced at least 2 minutes in the mode.
- If the Index Search function is started extremely close to the beginning of the next programme (address) or from the beginning of the tape, the first address may not be counted.

1-6. INTRO SCAN FUNCTION

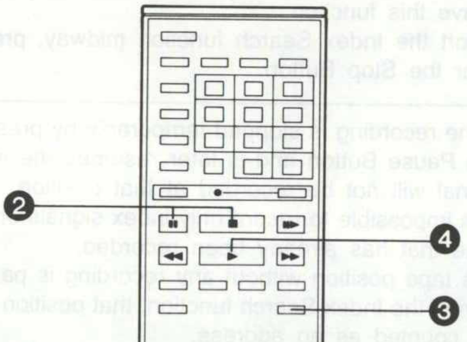
How the Intro Scan Function Works...



*Operation is repeated until tape reaches its end.

The Intro Scan function plays back the first 10 seconds of each programme (recorded with index signal) on a tape one after another. This is convenient for quick checking what programmes are on a tape, or to find the desired instalment of a TV series you have recorded on a tape.

Convenient Intro Scan Operation with the Remote Controller



❶ Insert a video cassette on which index signals are recorded.

❷ Put the VTR in the stop mode or the still playback mode.

❸ Press the Intro Scan Button.
("S" mark will light up in the Multi-Function Display and the Intro Scan will start.)

❹ When the desired scene is reached, press the Play Button.

Intro Scan Operation on the VTR

① Insert a video cassette.
(Put the VTR in the stop mode.)

② Press the Memory/Search Button twice.
("S" mark appears.)

③ Press the Fast Forward ▶▶/Cue ⏩ Button.
(The Intro Scan starts.)

④ When the desired scene is reached, press the Play Button.

- The Intro Scan function may not be activated for the first programme recorded close to the beginning of the tape.
- During the Intro Scan, if there is a portion without any recording on the tape, the Intro Scan function will be activated at that position to play back the tape for about 10 seconds, and the Intro Scan will then continue.
- The Intro Scan function may not be activated, if the interval between programme starts is less than 2 minutes in the mode.
- If a portion without any recording on the tape continues for more than about 50 minutes in the mode.

SECTION 2
ADJUSTMENT PROCEDURES

2-1. MECHANICAL ADJUSTMENT PROCEDURES

This Mechanical Chassis of these models are the same as the G Mechanical Chassis. Therefore please refer to the Service Manual G Mechanical Chassis (Order No. VRD8701105).

2-2. DISASSEMBLY METHOD

2-2-1. DISASSEMBLY FLOWCHART

This flowchart indicates disassembly steps of the cabinet parts and the Circuit Boards in order to find the necessary items for servicing. When reassembling, perform the steps in the reverse order.

Note:
When removing the Front Panel, be careful to avoid any damages for the locking portions of the panel.

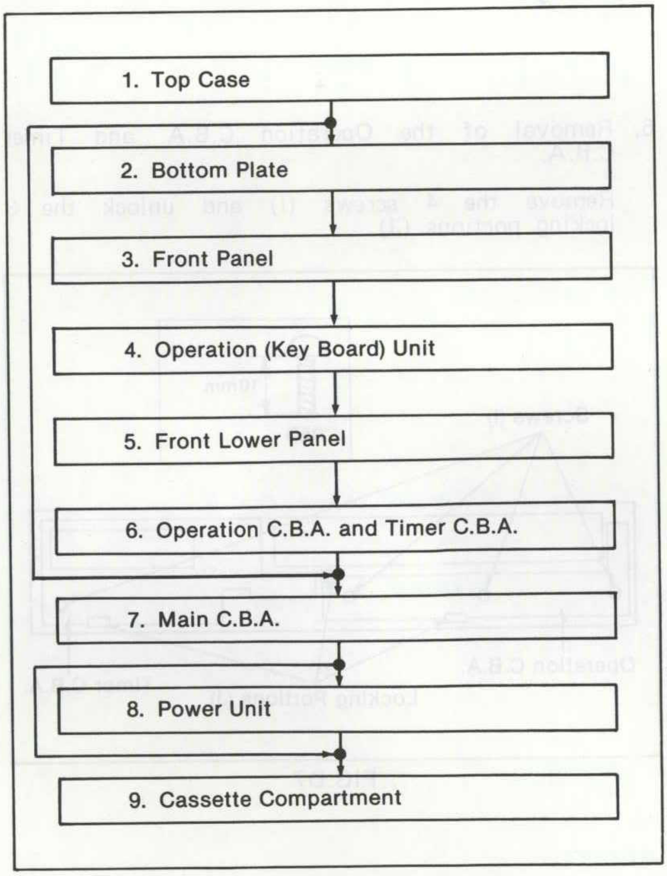
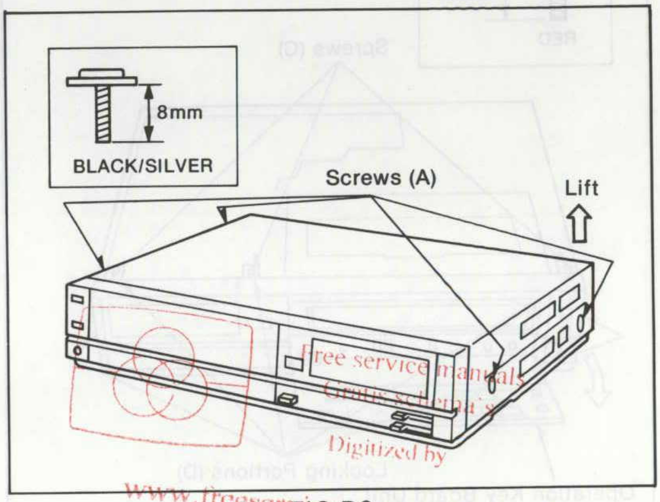


FIG.D1

2-2-2. DETAIL OF DISASSEMBLY METHOD

1. Removal of the Top Case

Remove the 4 screws (A) then carefully lift the rear of the Top Case to remove.



Free service manuals Gratis schema's Digitized by www.freeservicemanuals.info

FIG.D2

2. Removal of the Bottom Plate

Place the deck upside down so that the bottom side faces upward. Then remove the 8 screws (B).

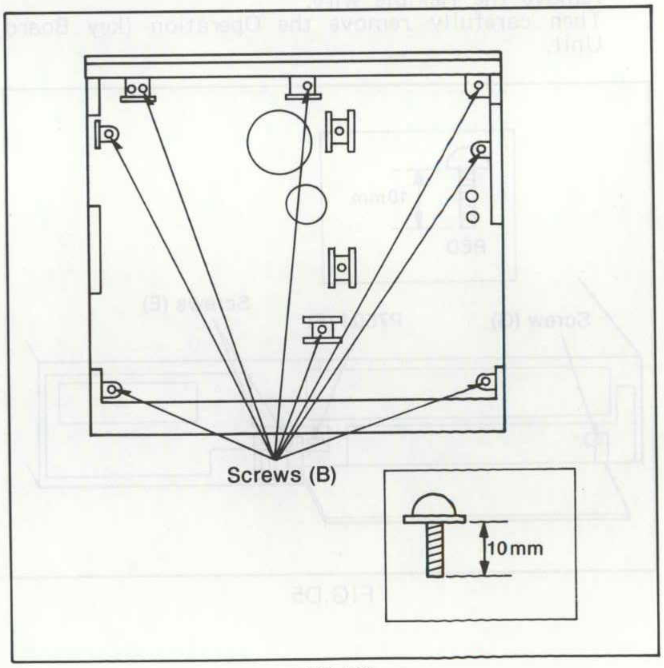


FIG.D3

Note:
Place the cushion under the deck to avoid any damages.

3. Removal of the Front Panel

Open the Operation (key Board) Unit and remove the 3 screws (C) and unlock the 5 locking portions (D).
Then hold the top portion of the panel and turn it toward the front side of the deck to remove.

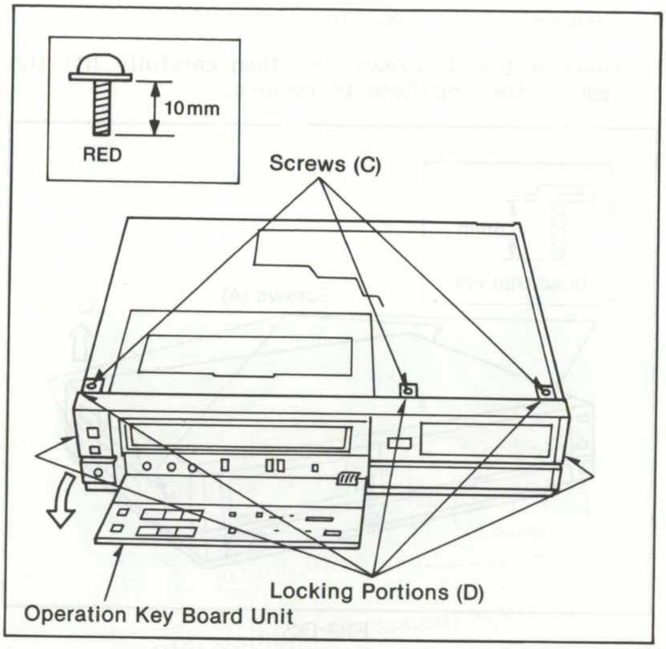


FIG.D4

4. Removal of the Operation (key Board) Unit

Remove the 2 screws (E).
Disconnect the connector P7504(F) and remove the flexible wire.
Then carefully remove the Operation (key Board) Unit.

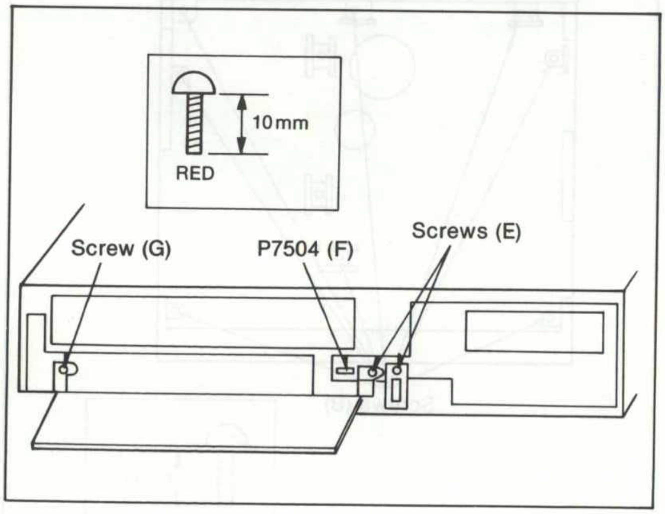


FIG.D5

5. Removal of the Front Lower Panel.

Place the deck up side down so that the bottom side faces upward.
Then remove the 1 screw (G) and unlock the 3 locking portions (H).

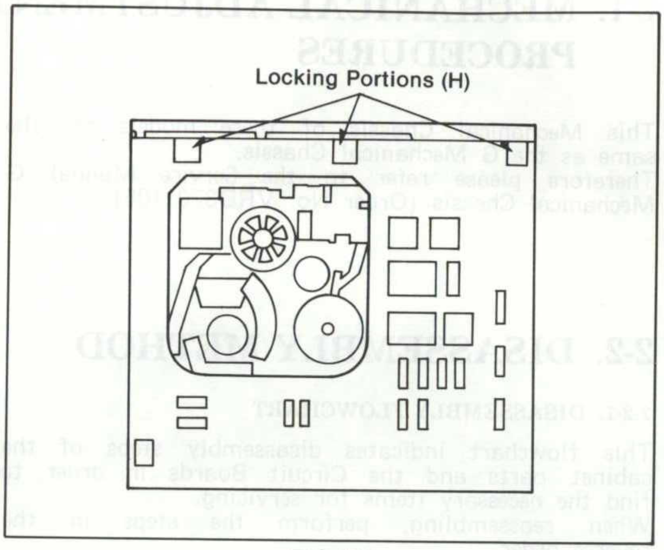


FIG.D6

Note:
Place the cushion under the deck to avoid any damages.

6. Removal of the Operation C.B.A. and Timer C.B.A.

Remove the 4 screws (I) and unlock the 3 locking portions (J).

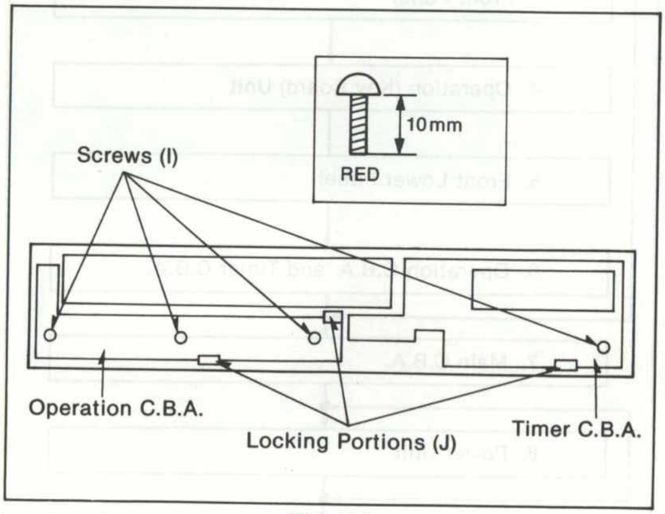


FIG.D7

7. Removal of the Main C.B.A.

Remove the 10 screws (K) and take out the Main C.B.A. Putting it up right position on the flame can be available as shown in Fig.D9.

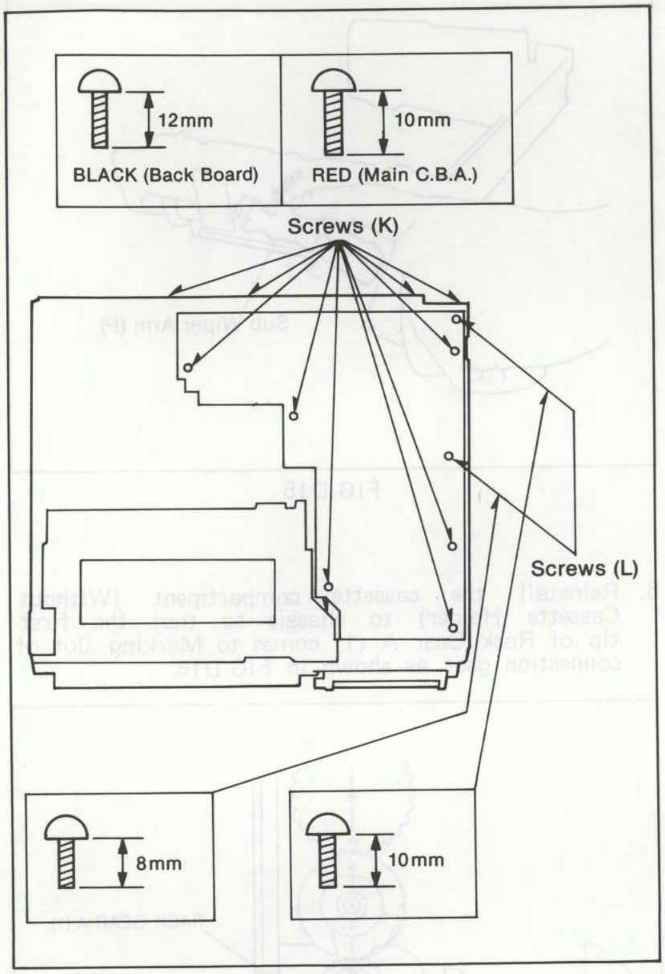


FIG.D8

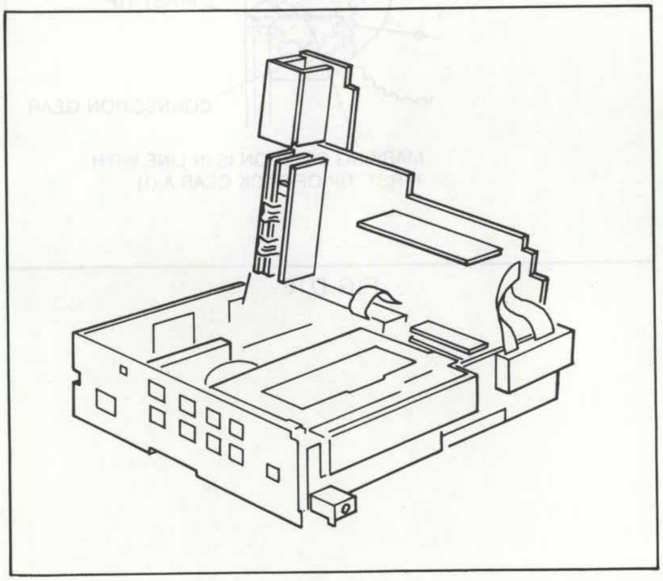


FIG.D9

8. Removal of Power Unit

Remove the 2 screws (L) and take it out from the Main C.B.A.as shown in Fig.D10. Remove the shield case then checking can be performed.

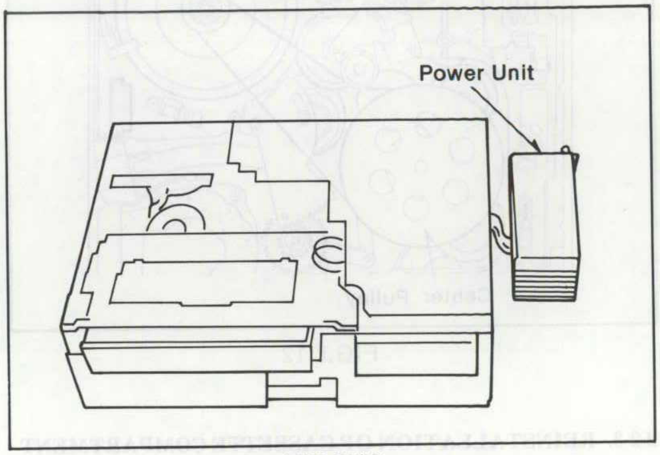


FIG.D10

9. Remove of Cassette Compartment

Remove 2 screws(M) and slide the cassette holder until appearing 2 screws(N) by turning(clockwise) the capstan rotor unit(located in the bottom side) and then remove 2 screws(N).
Remove the flexible wire from connector P1503 mounted on Take-up photo Tr. C.B.A.,then carefully pull out the cassette compartment.

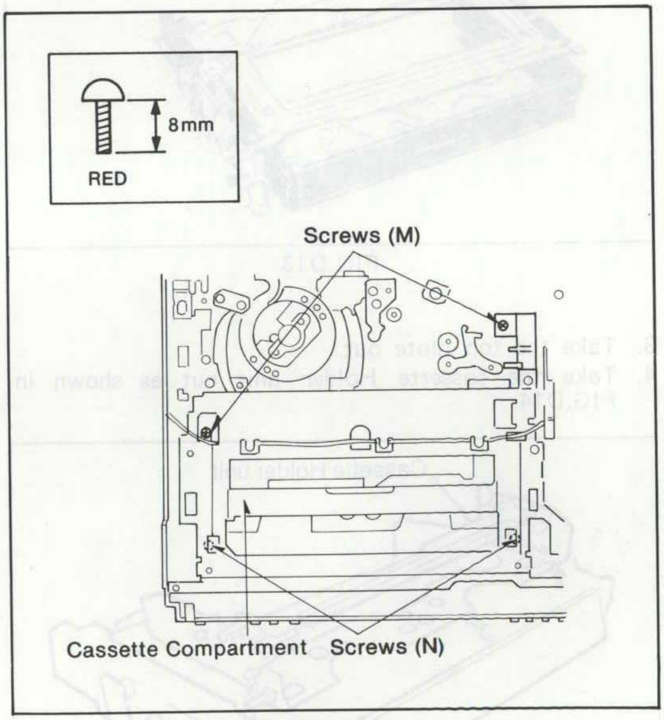


FIG.D11

3/20/15

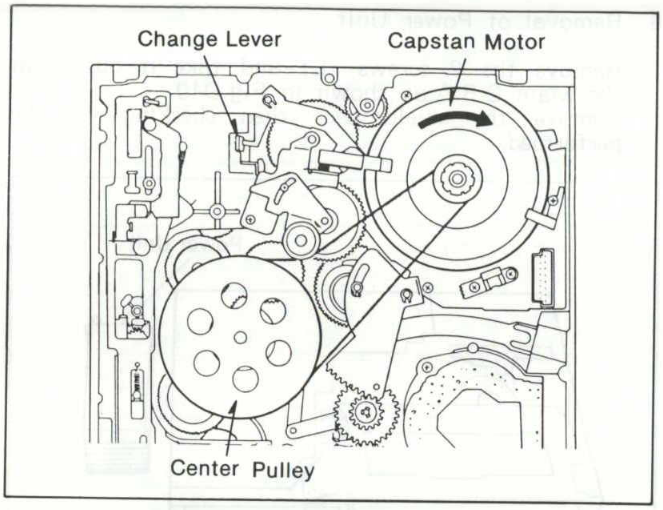


FIG.D12

2-2-3. REINSTALLATION OF CASSETTE COMPARTMENT FROM STOP (FF/REW) POSITION

1. Set the mechanism condition to Stop (FF/REW) position by means of turning capstan motor (refer to 2–2–5.)
2. Remove the 2 screws (O) as shown in FIG.D13.

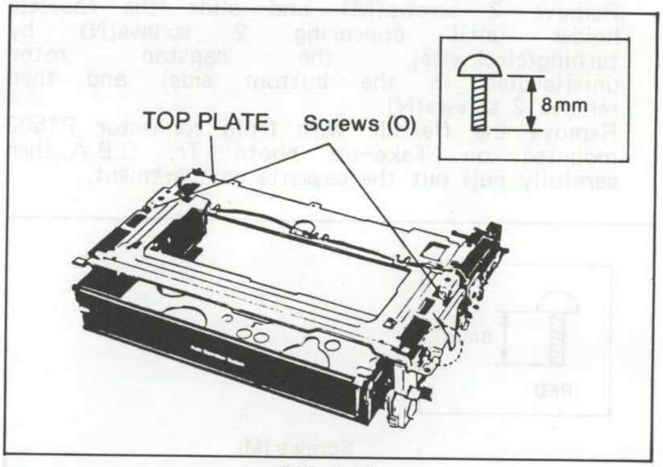


FIG.D13

3. Take the top plate out.
4. Take the cassette Holder unit out as shown in FIG.D14.

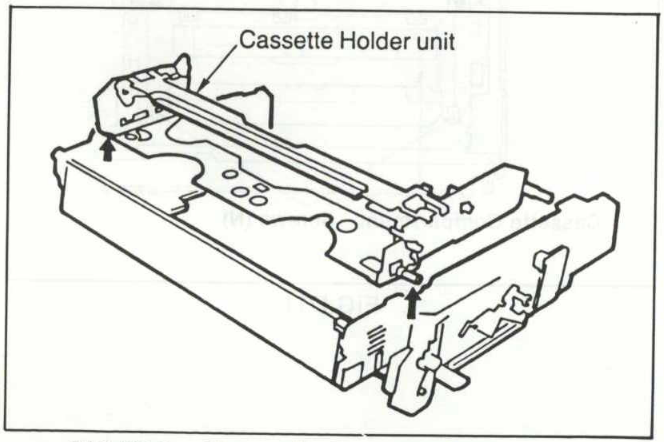


FIG.D14 Removal of cassette holder unit.

5. Press the sub wiper arm (P) to direction indicated by arrow so that the sub wiper arm (P) comes to cassette down position completely as shown in FIG.D15 . and keep it.

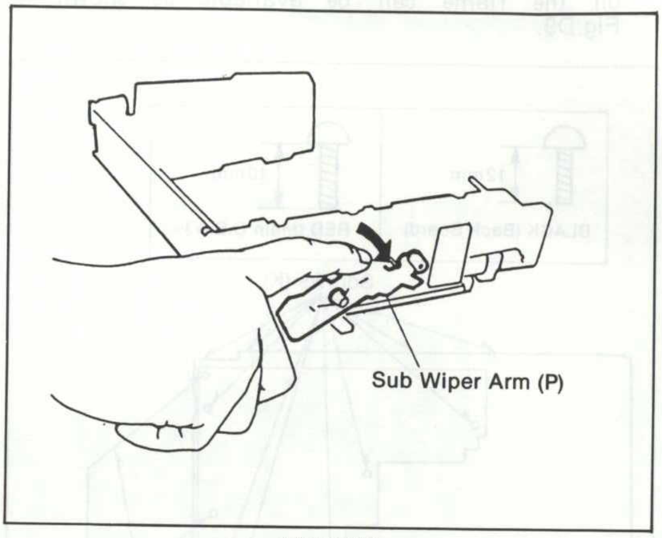


FIG.D15

6. Reinstall the cassette compartment (Without Cassette Holder) to chassis so that the first tip of Rack Gear A (1) comes to Marking slot of connection gear as shown in FIG.D16.

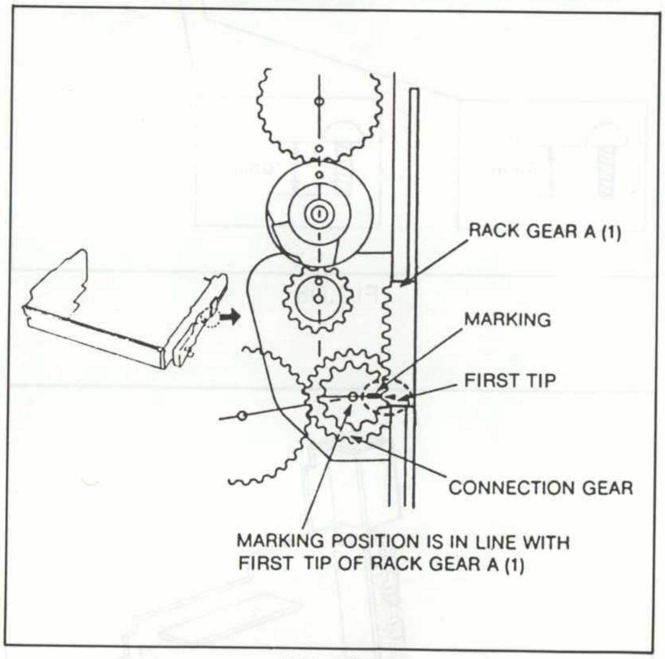

RACK GEAR A (1)
MARKING
FIRST TIP
CONNECTION GEAR
MARKING POSITION IS IN LINE WITH
FIRST TIP OF RACK GEAR A (1)

FIG.D16

7. Tighten the 4 screws (Q) as shown in FIG.D17.

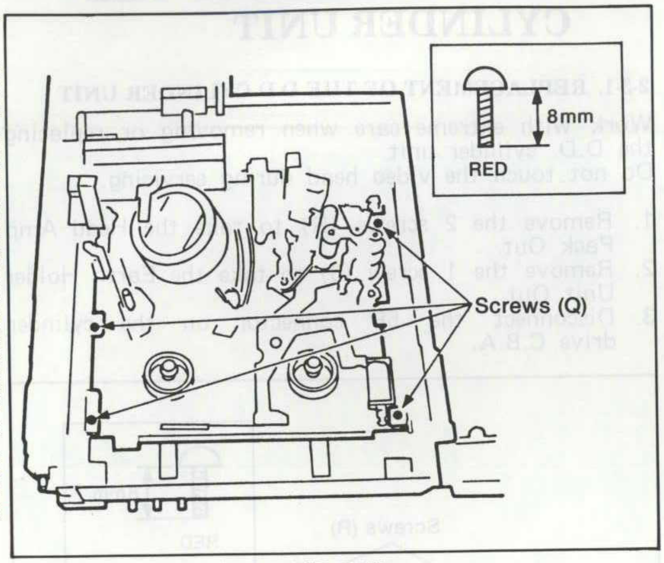


FIG.D17

8. Press the change lever and turn the capstan motor counter clockwise until mechanism is placed to Eject position as shown in FIG.D18.
9. Reinstall the cassette holder unit as just the reverse way of item 4, FIG. D14.
10. Reinstall the top plate as just the reverse way of item 3, FIG.D13.

2-2-4. HOW TO EJECT MANUALLY

If the electrical circuit is defective and the action of unloading and front unloading don't work properly, it is possible to eject manually as follows.

(1) Take out the Main AC.

(2) Release the Change Lever by pushing it to arrow mark direction as shown in FIG.D18.

(3) Turn the capstan motor to counter clockwise slowly until the Clutch Disk is locked. (Clutch Disk is locked once in one rotation)

(4) Release the Change Lever again when the Cluch Disk is locked.

(5) Repeat the (2) and (3) until cassette is ejected.

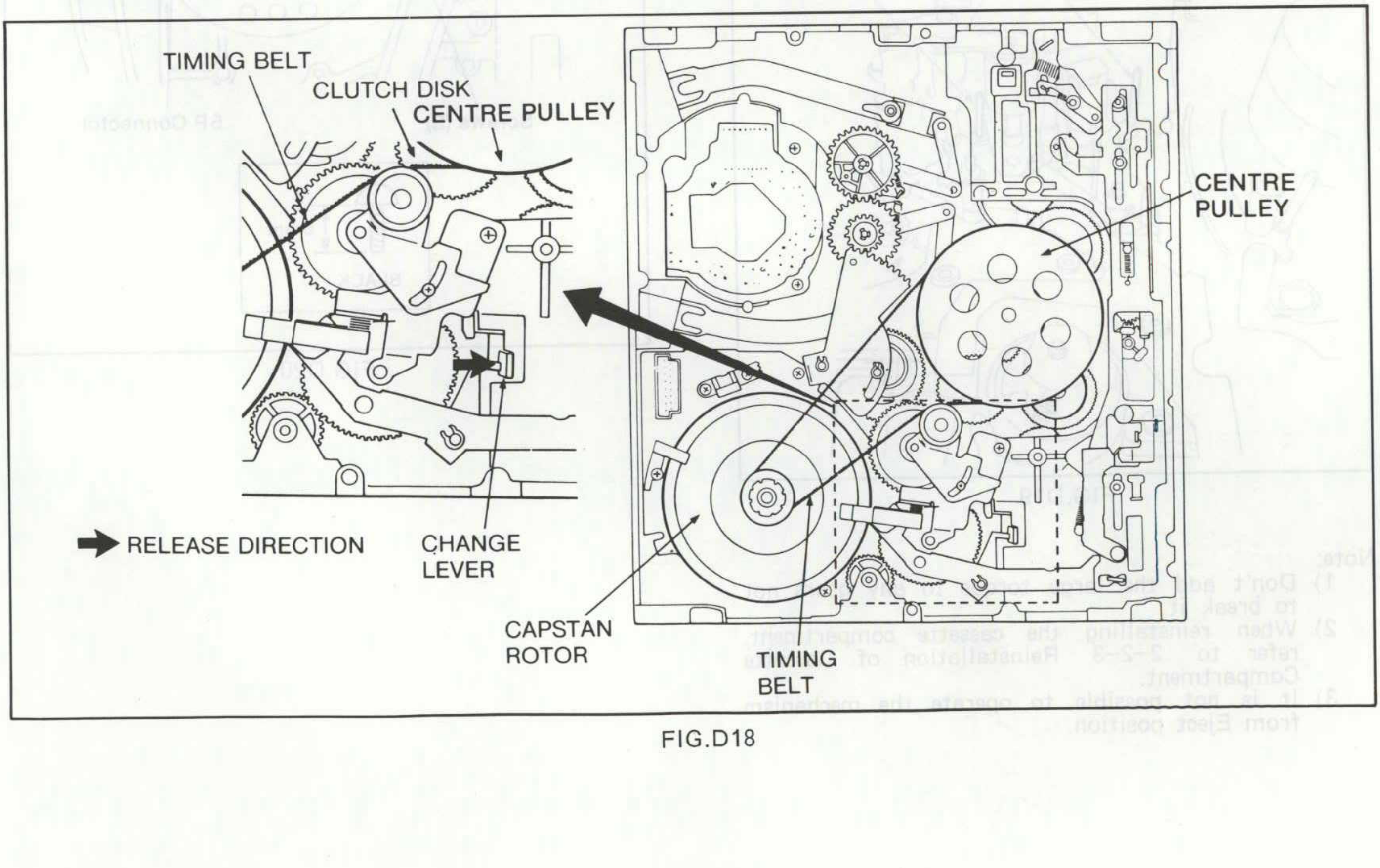


FIG.D18

2-2-5. HOW TO SEE THE MOVEMENT OF MECHANISM WITHOUT CASSETTE COMPARTMENT

Since capstan motor works as loading motor and front loading motor,Phase relationship between cassette compartment and mechanism is important, so Playback and FF/REW can not be performed even just only taking out the cassette compartment, however,if you want to see the mechanical movement without cassette compartment, it is possible as follows..

1. Take out the Main AC.
2. Take out the 5 pin flexible cable from P1503 on the cassette compartment and remove the cassette compartment from chassis.
   Set the Mechanism to stop (FF/REW) mode as following items 3.,4.,5.,6.
3. Release the change lever by pussing it to arrow mark direction as shown in FIG. D18.
4. Turn the capstan motor to clockwise until the Clutch Disk is locked.
   (Clutch Disk is locked once in one rotation)
5. Release the change lever again when Clutch Disk is locked.
6. Repeat item 4 and 5 until mechanism come to stop (sub loading) position as shown in FIG.D19.
   (STOP position is same as FF/REW position, therefore, when you rotate the capstan motor in STOP position, supply or Take up reel table is rotated corresponding with direction of rotation)
7. Turn the power on.
8. Now, any operation can be performed without cassette compartment.

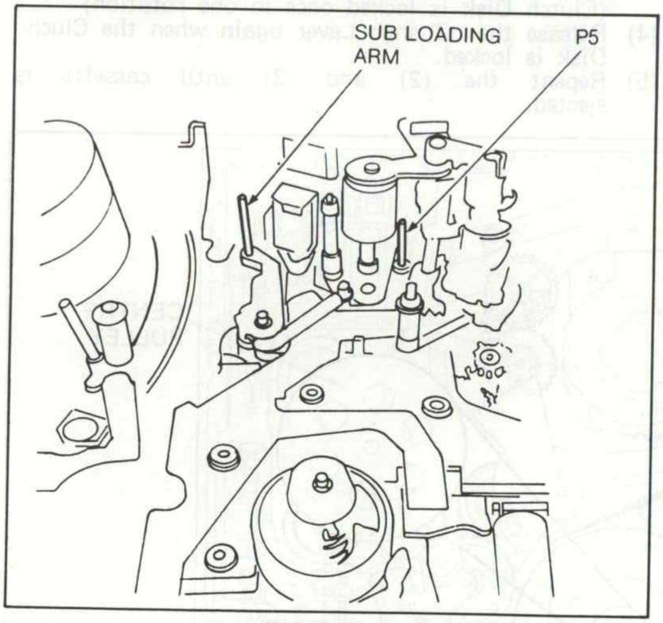


FIG.D19

Note:

1) Don't add the large torque to any gears not to break it.
2) When reinstalling the cassette compartment, refer to 2-2-3 Reinstallation of Cassette Compartment.
3) It is not possible to operate the mechanism from Eject position.

2-3. REPLACEMENT OF THE CYLINDER UNIT

2-3-1. REPLACEMENT OF THE D.D CYLINDER UNIT

Work with extreme care when removing or replacing the D.D. cylinder unit.
Do not touch the video head during servicing.

1. Remove the 2 screws (R) to take the Head Amp Pack Out.
2. Remove the 1 screw (S) to take the Earth Holder Unit Out.
3. Disconnect the 5P connector on the cylinder drive C.B.A.

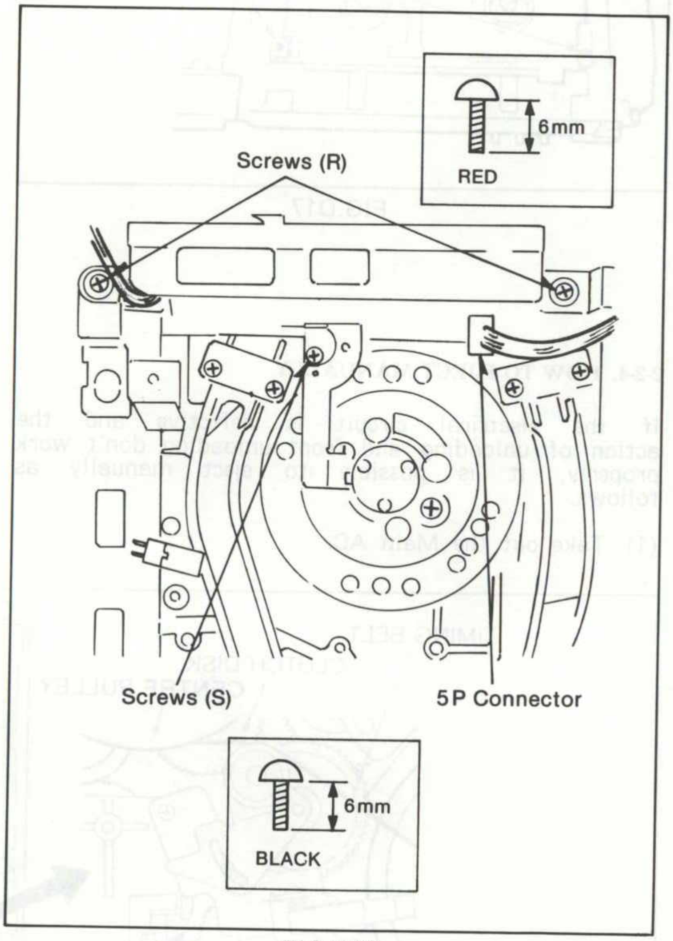


FIG.D20

4. Remove the 3 screws (T) to take the D.D. cylinder unit (with the cylinder drive C.B.A.) out.

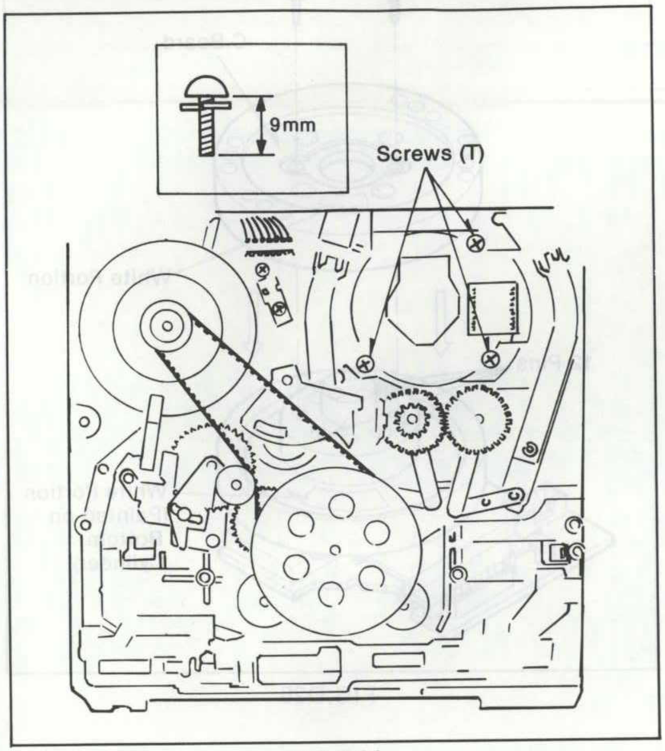


FIG.D21

Note:
Since there is very little clearance between the D.D. cylinder unit and the chassis, remove the D.D. cylinder unit gently and carefully.

5. Reinstall the new D.D.Cylinder Unit, tighten the 3 screws (T) and reinstall the Earth Holder Unit, tighten the 1 screw (S).
Then re-connect the Head Amp pack and 5P connector and tighten 2 screws (R).

Note:
(1) Gently rub the video head in direction of tape travel with Head cleaning stick.
(2) After replacement, confirm the performance. If any further maintenance is required, perform "TAPE INTER-CHANGE ABILITY ADJUSTMENT".

2-3-2. REPLACEMENT OF THE CYLINDER DRIVE C.B.A.

1. Remove the D.D. cylinder unit referring the Item 2-3-1.
2. Place the D.D. cylinder unit upside down.
3. Unsolder the soldered portion (V) for shield case to take it out.
4. Unsolder the 18 soldered portions (U) indicated by an arrow wark (including 10 soldered portions inside of shield case).
5. Remove the 2 screws (W) to remove the cylinder drive C.B.A. unit.

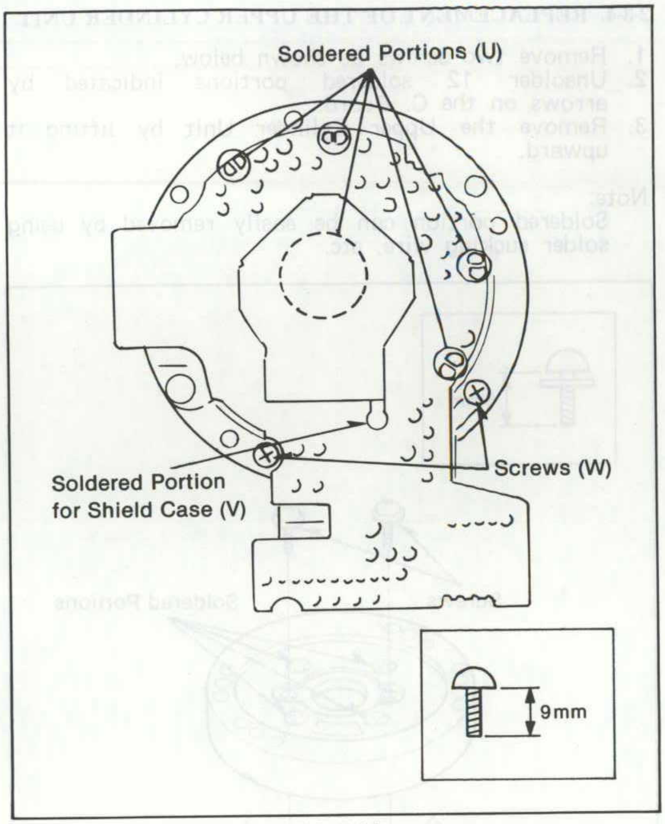


FIG.D22

6. Reinstalling is just reverse way of above procedures.

2-3-3. REPLACEMENT OF THE CYLINDER DRIVE IC

1. Remove the Cylinder Drive C.B.A. as item 2-3-2.
2. Remove the screw (X) to take the heat sink Plate out.
3. Unsolder the 18 soldered portions of the Cylinder Drive IC to take it out.
4. Reinstall the New IC with the care of Pins location.
5. Re-solder the 18 pins of the Cylinder Drive IC.
6. Reinstall the Cylinder Drive C.B.A. to the D.D.

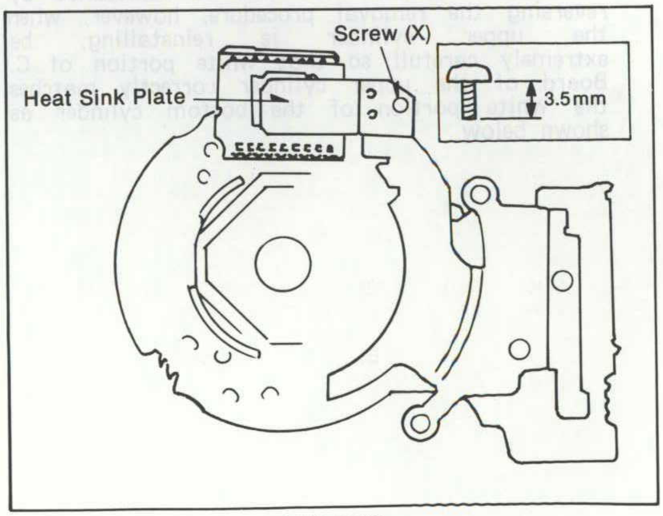


FIG.D23

2-3-4. REPLACEMENT OF THE UPPER CYLINDER UNIT

1. Remove two screws as shown below.
2. Unsolder 12 soldered portions indicated by arrows on the C. Board.
3. Remove the Upper Cylinder Unit by lifting it upward.

Note:
Soldered portion can be easily removed by using solder sucking wire, etc.

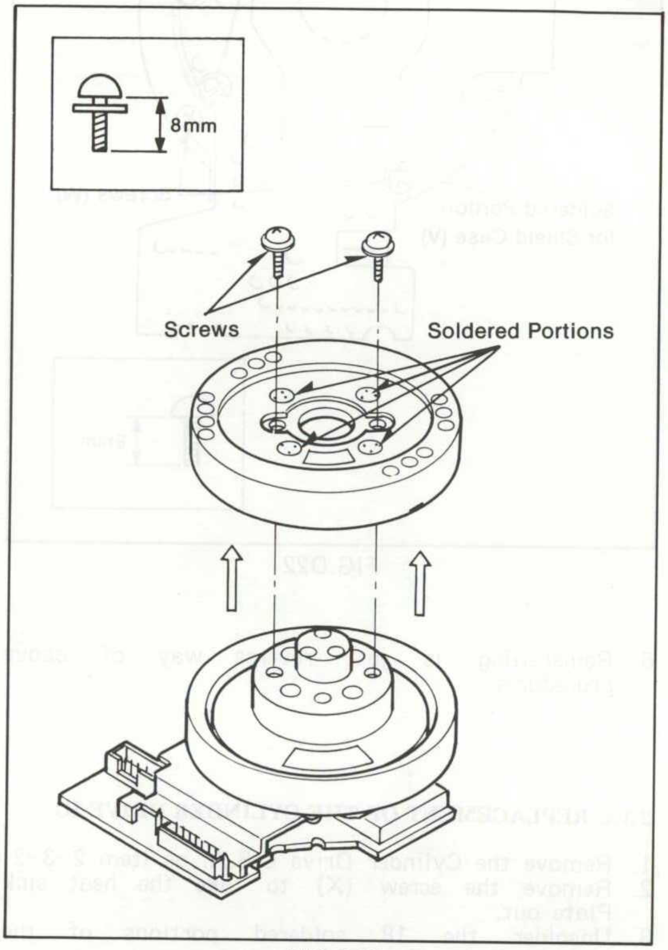


FIG.D24

4. The upper cylinder unit can be reinstalled by reversing the removal procedure, however, when the upper cylinder is reinstalling, be extremely carefull so that white portion of C. Board of the upper cylinder correctly matches the white portion of the bottom cylinder as shown below.

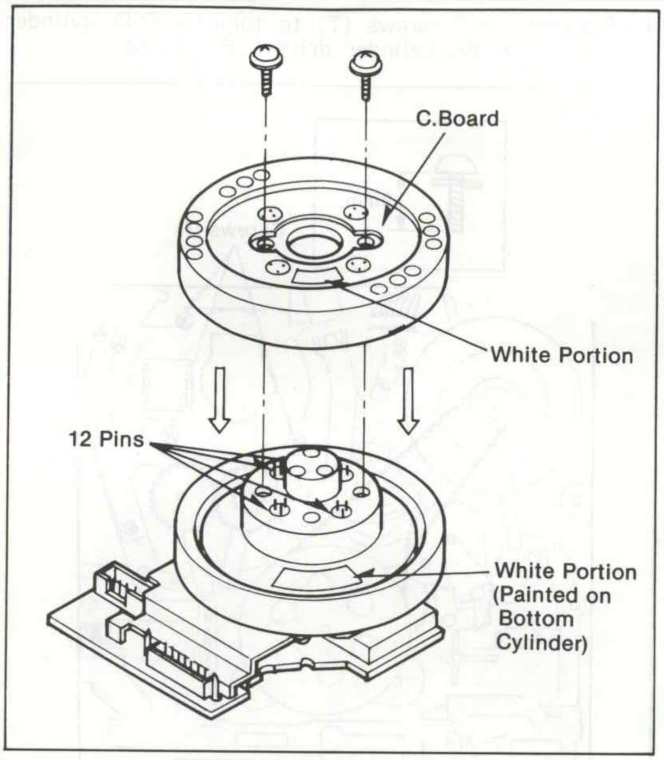


FIG.D25

Note:
1). If the Upper Cylinder Unit is reversely installed, no colour would appear when playing back a pre-recorded tape.
2). Do not loosen the 3 small screws on the top of the cylinder as shown below
If these 3 screws are loosend, Cylinder motor is broken and not restored.

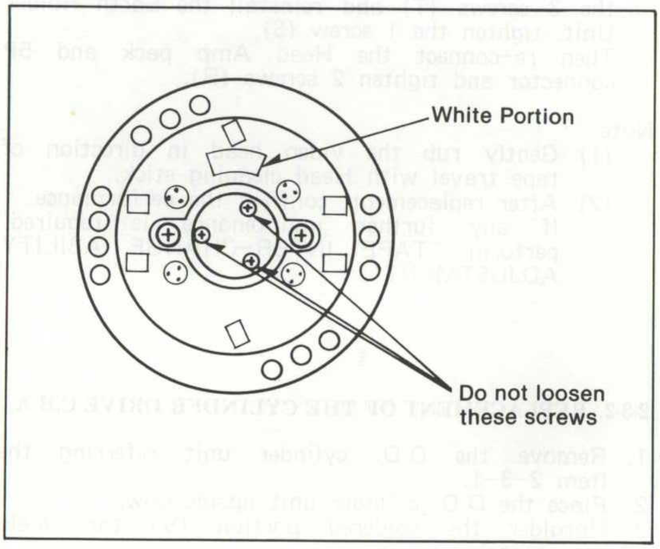


FIG.D26

2-4. ELECTRICAL ADJUSTMENT PROCEDURES

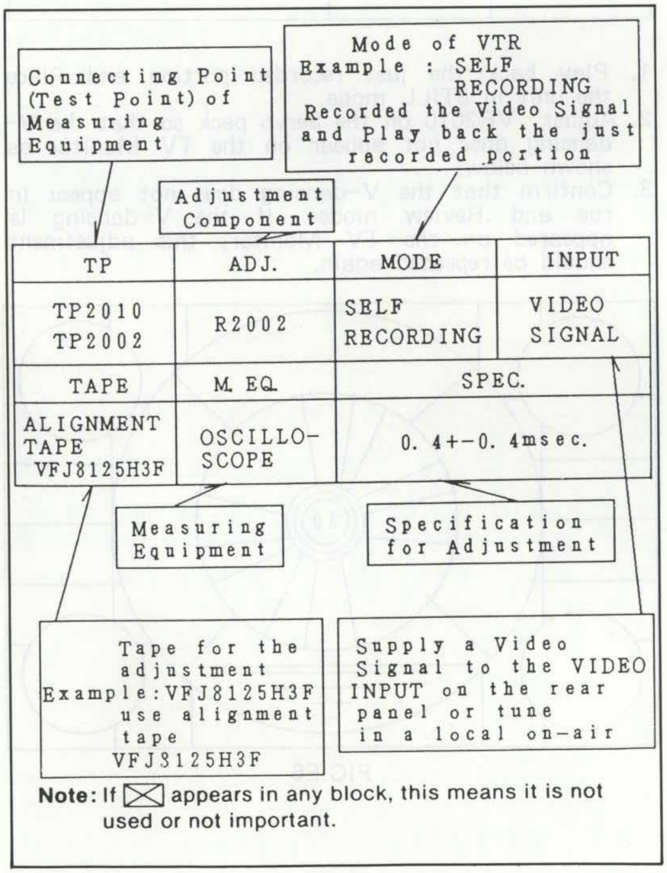
This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette Recorders NV−H75EO/EV.

2-4-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage Range: 0.001∼50V
2. Dual−Trace Oscilloscope
   Voltage range: 0.005∼50V/div.
   Frequency Range: DC−30MHz
   Probes: 10:1
3. Frequency counter
   Frequency Range: 0∼10MHz
4. Signal Generator (Sinewave)
   Frequency Range: 0∼500KHz
5. Video Sweep Generator
   Frequency Range: 0∼10MHz
6. Colour Monitor TV
7. Plaastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)
9. Pattern Generator

2-4-2. HOW TO READ THE ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Mode of VTR
Example : SELF RECORDING
Recorded the Video Signal and Play back the just recorded portion
Adjustment Component
TP
ADJ.
MODE
INPUT
TP2010
TP2002
R2002
SELF RECORDING
VIDEO SIGNAL
TAPE
M. EQ.
SPEC.
ALIGNMENT TAPE VFJ8125H3F
OSCILLO-SCOPE
0.4+−0.4msec.
Measuring Equipment
Specification for Adjustment
Tape for the adjustment
Example : VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air

Note: If ☒ appears in any block, this means it is not used or not important.

FIG.E1

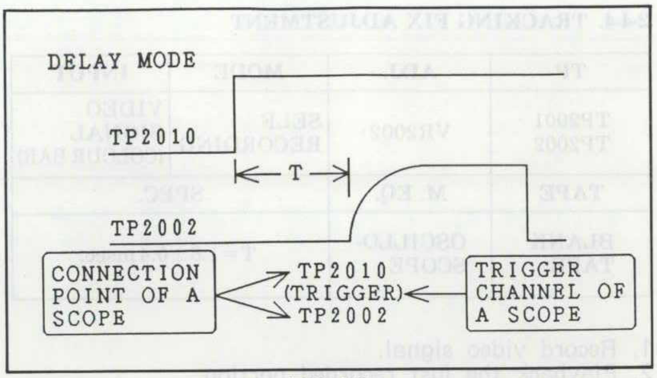


FIG.E2

Note:
Before the electrical adjustment, set the VHS VTR as following conditions except for especial instructions in each adjustment item.

1) Tracking Control VR ——— Centre FIX Position
2) Picture Sharpness VR —— Centre FIX Position
3) RF Signal Level SW ———— HIGH
4) TEST ON / OFF ———— OFF
5) Input Selector SW ———— LINE
6) Timer Record Button ——— OFF
7) EDIT SW ——— OFF
8) DBS SW ———— OFF
9) Audio Rec Level VRs ——— Centre Fix Position
10) Oscilloscope−Probe ——— 10:1 Probe

SERVO SECTION

2-4-3. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAY	☒
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	6.5±0.5H	

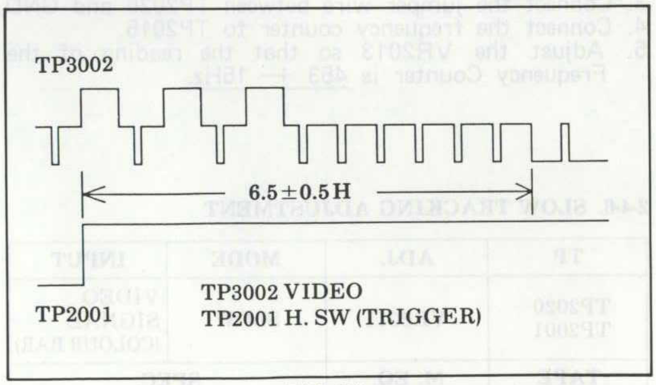


FIG.E3

2-4-4. TRACKING FIX ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP2002	VR2002	SELF RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	T=1.6±0.4msec.	

1. Record video signal.
2. Playback the just recorded portion.
3. Adjust VR2002 so that the period of "T" becomes 1.6 +– 0.4msec as shown in Fig.E4.

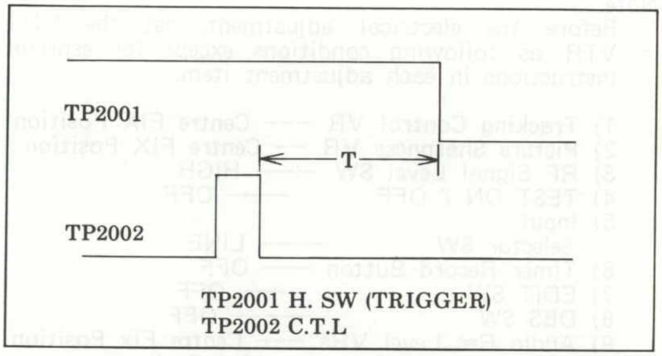


FIG.E4

2-4-5. SLOW FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2015	VR2013	STILL	VIDEO SIGNAL (COLOUR BAR)
TAPE	M. EQ.	SPEC.	
BLANK TAPE (60min type)	FREQUENCY COUNTER	453±15Hz	

1. Record video signal and play back the just recorded portion.
   Then place the unit in STILL mode.
2. Connect the jumper wire between TP2025 and GND.
3. Connect the jumper wire between TP2026 and GND.
4. Connect the frequency counter to TP2015.
5. Adjust the VR2013 so that the reading of the Frequency Counter is 453 +– 15Hz.

2-4-6. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2020 TP2001	VR2011	SLOW	VIDEO SIGNAL (COLOUR BAR)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	T=20.0±2.0msec.	

1. SLOW TRACKING VR is in centre fix position.
2. Play back the just recorded portion in SLOW mode.
3. Adjust VR2011 for 20+–20msec.

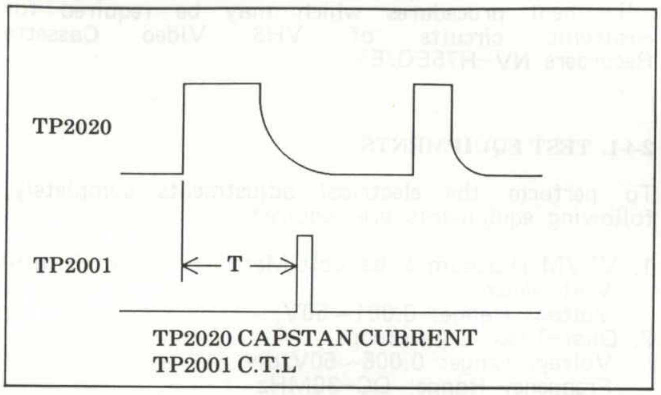


FIG.E5

2-4-7. ARTIFICIAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TV MONITOR	VR2010	STILL	VIDEO SIGNAL (MONO SCOPE)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	TV MONITOR	NO V-DANCING	

1. Play back the just recorded portion and Place the unit in STILL mode.
2. Adjust VR2010 on the Servo pack so that the V–dancing does not appear on the TV Monitor as shown below.
3. Confirm that the V–dancing does not appear in cue and Review modes. If the V–dancing is appeared on the TV Monitor, this adjustment should be repeated again.

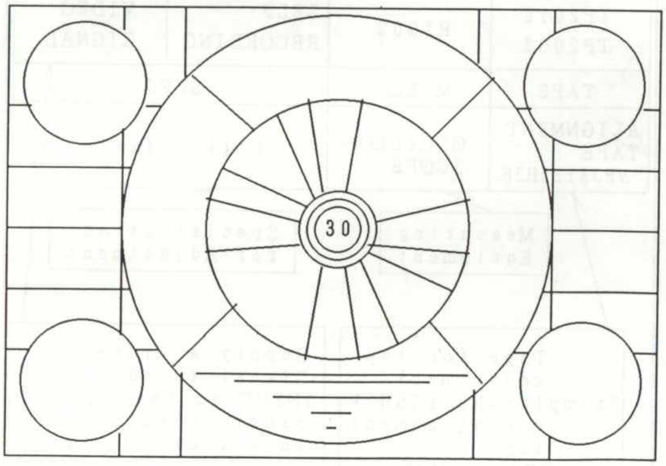


FIG.E6

LUMINANCE, CHROMINANCE & HEAD AMP SECTION

2-4-8. CHROMINANCE & LUMINANCE RECORDING CURRENT ADJUSTMENT

* CHROMINANCE RECORDING CURRENT ADJ.

TP	ADJ.	MODE	INPUT
TP503 (HOT) TP504 (GND)	VR502	RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	24±3mVp-p	

1. Connect the oscilloscope to TP503 (HOT) and TP504 (GND).
2. Connect a jumper wire between luminance & chrominance pack-(6) and GND.
3. Adjust VR502 for 24+-3mVp-p as shown below.

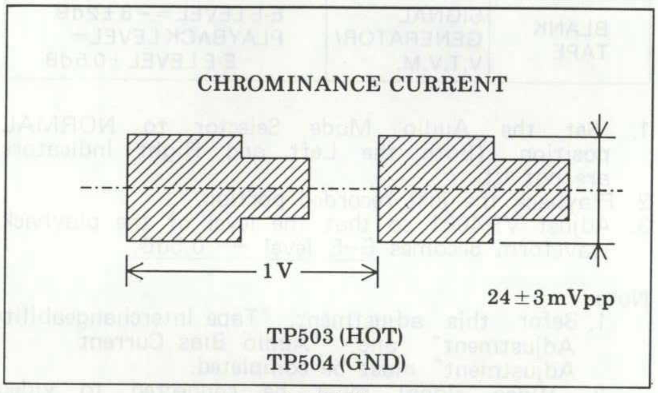


FIG.E7

* LUMINANCE RECORDING CURRENT ADJ.

TP	ADJ.	MODE	INPUT
TP503 (HOT) TP504 (GND)	VR501	RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	105±5mVp-p	

4. Remove a jumper wire from connected points.
5. After chrominance recording current adjustment, adjust VR501 for 105+-5mVp-p as shown below.

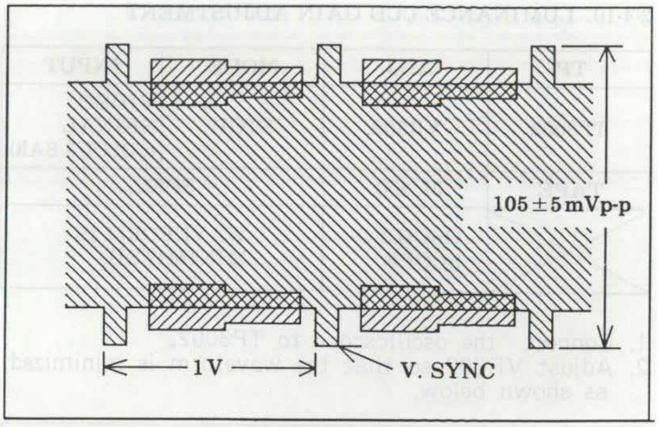


FIG.E8

2-4-9. HEAD AMP FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR3012	SELF RECORDING	VIDEO SWEEP
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	VIDEO SWEEP/ OSCILLO-SCOPE	A=0±1dB	

1. Set the sweep generator output as shown below.

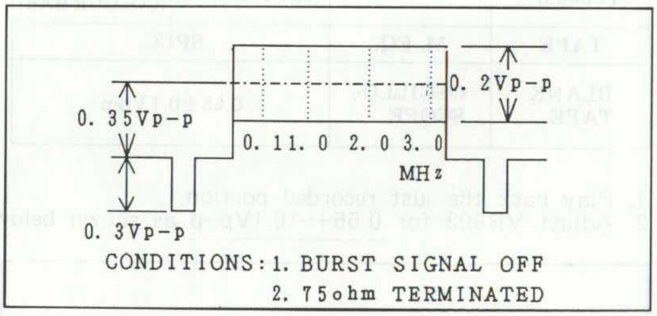


FIG.E9

2. Play back the just recorded portion.
3. Adjust VR3012 so that the level at 2MHz (A) becomes within specification comparing with the level at 0.1MHz as shown below.

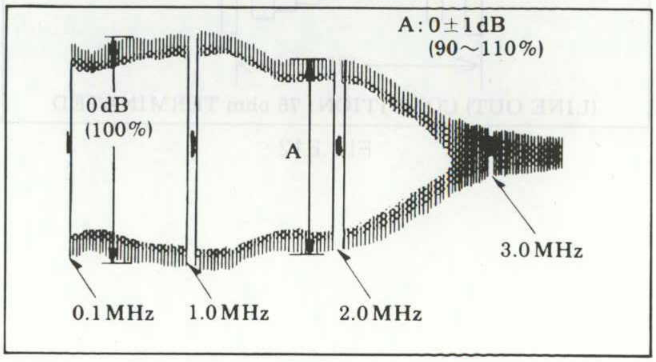


FIG.E10

3/20/15

2-4-10. LUMINANCE CCD GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR302	STOP	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	WAVEFORM IS MINIMIZED	

1. Connect the oscilloscope to TP3002.
2. Adjust VR302 so that the waveform is minimized as shown below.

MINIMUM AS POSSIBLE

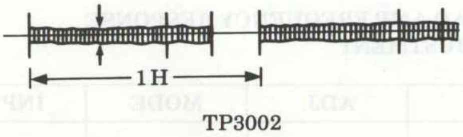
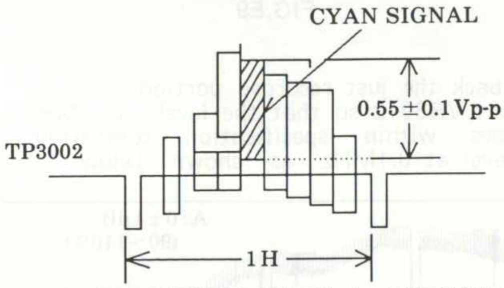


FIG.E11

2-4-11. PLAYBACK CHROMA CYAN LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR803	SELF RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	0.55±0.1 Vp-p	

1. Play back the just recorded portion.
2. Adjust VR803 for 0.55+– 0.1Vp–p as shown below.



(LINE OUT) CONDITION: 75 ohm TERMINATED

FIG.E12

NORMAL AUDIO SECTION

2-4-12. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4002	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	2.2±0.1 mVrms	

2-4-13. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP4001)	VR4001	SELF RECORDING	1 kHz, –10 dB AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M.	E-E LEVEL = –8±2 dB PLAYBACK LEVEL = E-E LEVEL ±0.5 dB	

1. Set the Audio Mode Selector to NORMAL position. (Both the Left and Right Indicators are not lit.
2. Playback the just recorded portion.
3. Adjust VR4001 so that the level of the playback waveform becomes E–E level +– 0.5dB.

Note:
1. Befor this adjustment, "Tape Interchangeability Adjustment" and "Audio Bias Current Adjustment" must be completed.
2. Video signal must be connected to video input.

2-4-14. AUDIO E-E LEVEL ADJUSTEMNT

TP	ADJ.	MODE	INPUT
LINE OUT (L)	VR4512	STOP	1 kHz, –10 dB AUDIO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
	SIGNAL GENERATOR/ V.T.V.M.	–8 dB±0.5 dB	

1. Set the Audio Mode Select to STEREO position.(Both the Left and Right indicators are lit.)
2. Adjust VR4512 to –8 +– 0.5dB at the line output(l).

Hi-Fi ADUIO SECTION

2-4-15. LEVEL METER SENSITIVITY ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR4004 (L) VR4005 (R)	STOP	1kHz, −10dB
TAPE	**M. EQ.**	**SPEC.**	
	SIGNAL GENERATOR		

1. Set the Audio Playback Mode Selector to STEREO position. (Both the Left and Right Indicators are lit.)
2. Set the output of the Signal Generator to 1KHz and −10dB, and supply it to both Input Jacks (L) and (R).
   Next, Adjust the Audio Rec Level VRs so that the audio outputs are 400mVp−p at both Output Jacks (L) and (R).
3. Adjust VR4004 so that the 0dB indicator just lights up on the L−ch level meter as shown below.
4. Adjust VR4005 so that the 0dB indicator just lights up on the R−ch level meter as shown below.

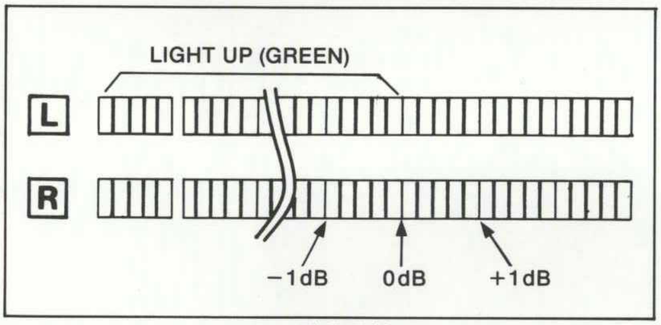


FIG.E13

2-4-16. Hi-Fi AUDIO RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4507 (HOT) SHIELD CASE (GND)	VR4503	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	240±10mVp-p	

1. Set the Audio Playback Mode Selector to "STEREO" position. (Both the Left and Right Indicators are lit.)
2. Connect the OSCILLOSCOPE to TP4507(HOT) and SHIELD CASE(GND).
3. Adjust VR4503 so that the Audio recording current become 240+−10mVp−p as shown below.

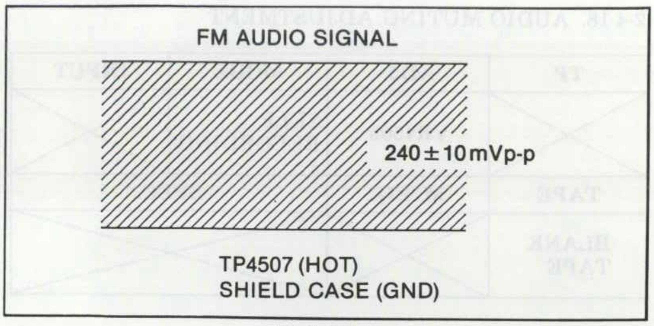


FIG.E14

2-4-17. AUDIO HEAD SWITCHING SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4511 TP2001	VR4510	PLAY	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	$T=T2-\left(\frac{T2-T1}{2}\right)$ msec.	

1. Play back the alignment tape (VFJ8125H3F).
2. Connect the oscilloscope to TP4511 and TP2001.
3. Play back the just recorded portion.
4. Adjust VR4510 while listening to the stereo playback sound.
   (1) Confirm the "T2" time when the abnormal sound just occurs during turning clockwise on VR4510.
   (2) Confirm the "T1" time when the abnormal sound just occurs during turnig counter clockwise on VR4510.
   (3) Adjust VR4510 so that the falling edge "T" of Audio H.SW pulse becomes the center portion of the both "T2" and "T1".

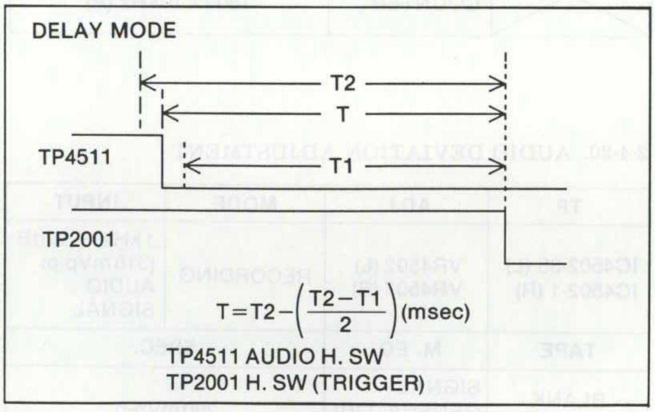


FIG.E15

2-4-18. AUDIO MUTING ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR4505	SELF RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE			

Note:
Before this adjustment "Tape Interchangeability Adjustment" must be completed.

1. Set Audio Playback Mode Selector to STEREO position. (Both the Left and Right Indicators are lit.)
2. Set the Audio Level Meter Selector to Tracking mode.
3. Set the Tracking VR so that the Audio Tracking level becomes maximum.
4. Preadjust VR4505 until the Hi-Fi indicator on the front panel display turns the NORMAL indication.
5. Then slowly adjust VR4505 where the STEREO indication just lights up.
6. Confirm that the abnormal sound does not contain in the playback Hi-Fi sound.

2-4-19. Hi-Fi AUDIO CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4502-32 (L) IC4802-8 (R)	VR4501 (L) VR4509 (R)	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	1400±10kHz (L) 1800±10kHz (R)	

2-4-20. AUDIO DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4502-38 (L) IC4502-1 (R)	VR4502 (L) VR4507 (R)	RECORDING	1kHz, −10dB (316mVp-p) AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ D.V.M.	260mVp-p	

1. Set the Audio Playback Mode Selector to MANUAL position. (Both the left and Right Indicators are not lit.)
2. Set the output of the Signal generator to 1KHz and −10dB, and supply it to both input Jacks (L) and (R).
   Next, adjust the Audio Rec Level VRs so that the audio outputs are 400mVp−p at both Output Jacks (L) and (R).
3. Adjust VR4502 to 260mVp−p at IC4502−38 on Hi−Fi AUDIO C.B.A. for L−Channel.
4. Adjust VR4507 to 260mVp−p at IC4502−1 on Hi−Fi AUDIO C.B.A. for R−Channel.

2-4-21. AUDIO PLAYBACK LEVEL ADJUSTMENT

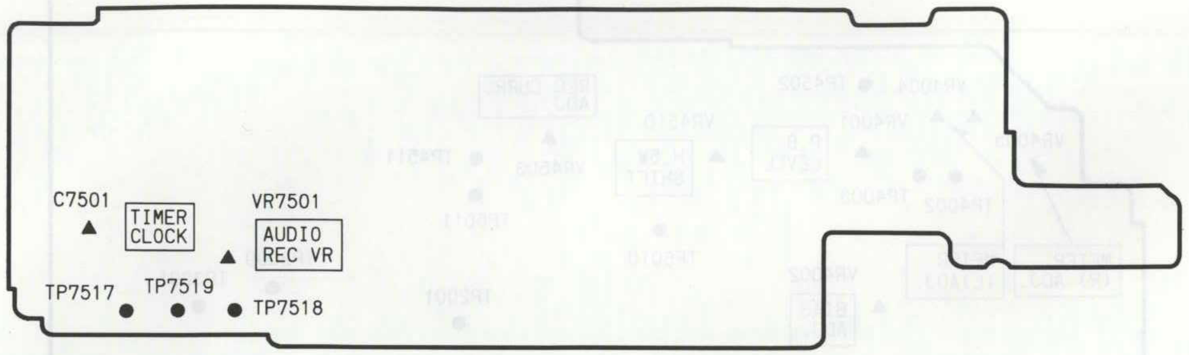
TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR4504 (L) VR4508 (R)	SELF RECORDING	SIGNAL GENERATOR (1kHz, −10dB)/ VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M	E-E LEVEL=−8±2dB PLAYBACK LEVEL= E-E LEVEL ±0.5dB	

Note:
Before this adjustment, Tape Interchangeability Adjustment" must be completed.

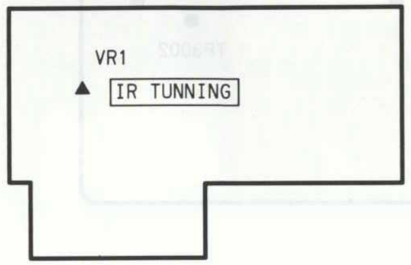
1. Play back the just recorded portion.
2. Adjust VR4504 and VR4508 volumes one by one, so that the level of the playback becomes E−E level+−0.5dB.

LOCATION OF TEST POINTS & CONTROLS —2—

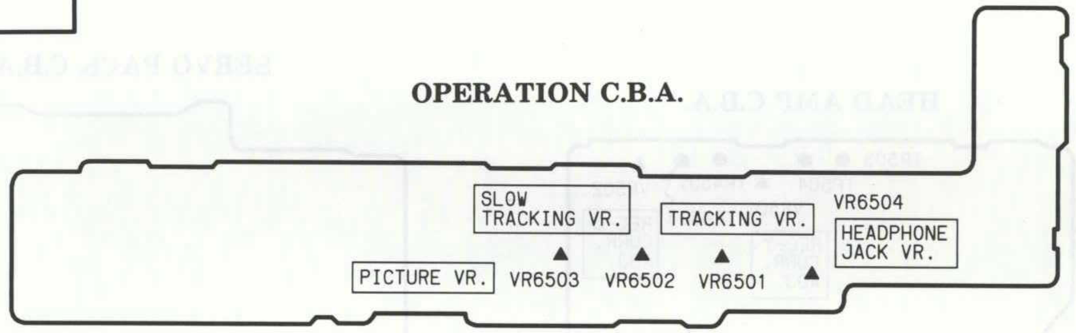
TIMER C.B.A.



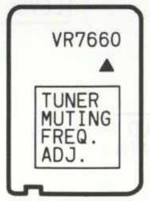
IR RECEIVER C.B.A.



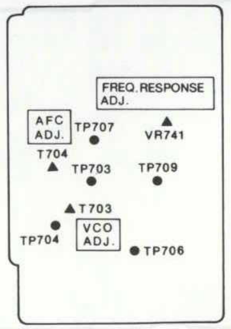
OPERATION C.B.A.



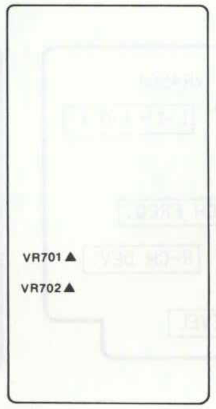
MUTING C.B.A.



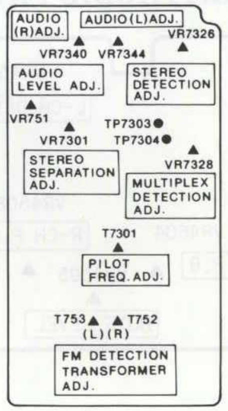
TV DEMODULATOR C.B.A.



TUNER/ARU C.B.A.



DECODER C.B.A.



TIMER SECTION

2-4-22. TIMER CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC7501-37	C7501		
TAPE	M. EQ.	SPEC.	
	FREQUENCY COUNTER	3906.25±0.008µs	

Note:
1) Do not connect the AC power plug.
2) Make a short circuit at C7571 to discharge. (refer to the Technical Information)

1. Set the voltage of the DC power supply for 5.8V+-0.1V and supply it to P7501-3 (+) and GND (-).
2. Connect a jumper wire between P7501-5 and GND.
3. Connect the frequency counter to IC7501-37.
4. Adjust C7501 for 3906.25us+-0.008us.

2-4-23. TIMER MUTING FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC7651-(4)	VR7660		
TAPE	M. EQ.	SPEC.	
	FREQUENCY COUNTER	15.625±0.05kHz	

Note:
1) To make this adjustment, please prepare the following circuit as shown below.
2) Make a short circuit between TP709 and GND.

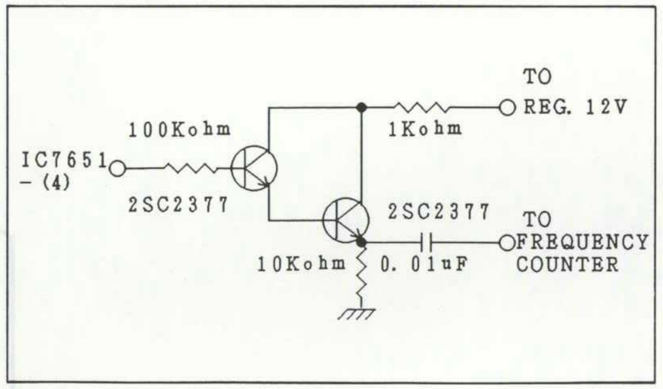


FIG.E16

TV DEMODULATOR SECTION

2-4-24. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. VIF SWEEP GENERATOR with the Trap Adjustor 38.9MHz
2. SIF SWEEP GENERATOR ....5.5MHz +- 150KHz
3. CW OSCILLATOR ....38.9MHz +- 100KHz
4. MONITOR SCOPE
5. OSCILLOSCOPE
6. DIGITAL VOLT METER
7. TUNING AMPLIFIER
8. MULTI VOICE MODULATOR (M.V.M)

Note:
To make this adjustment, set the Demodulator Unit as shown below.

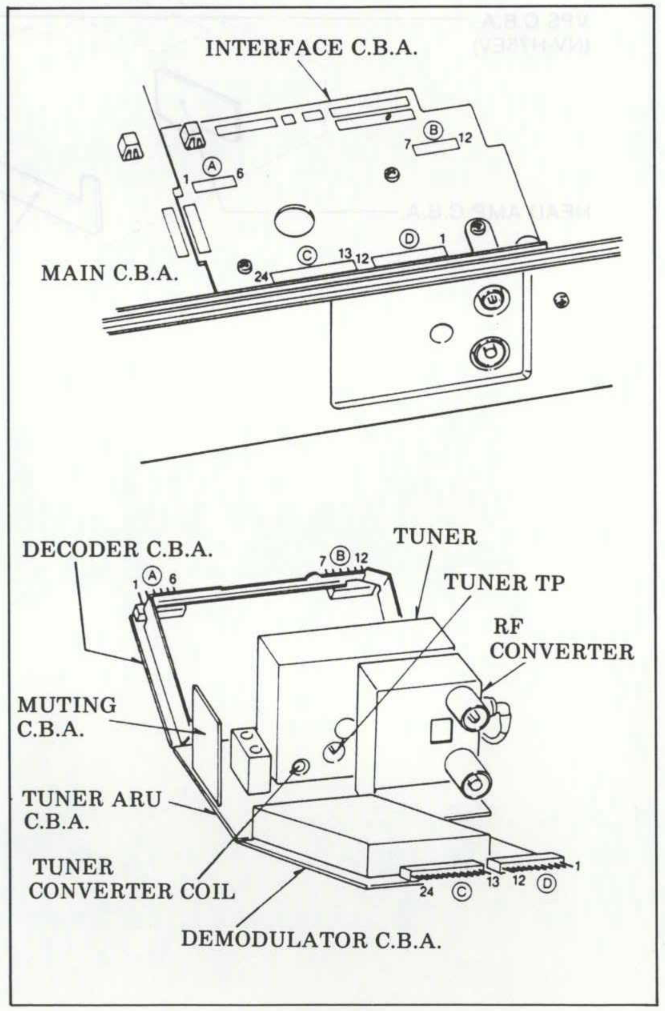
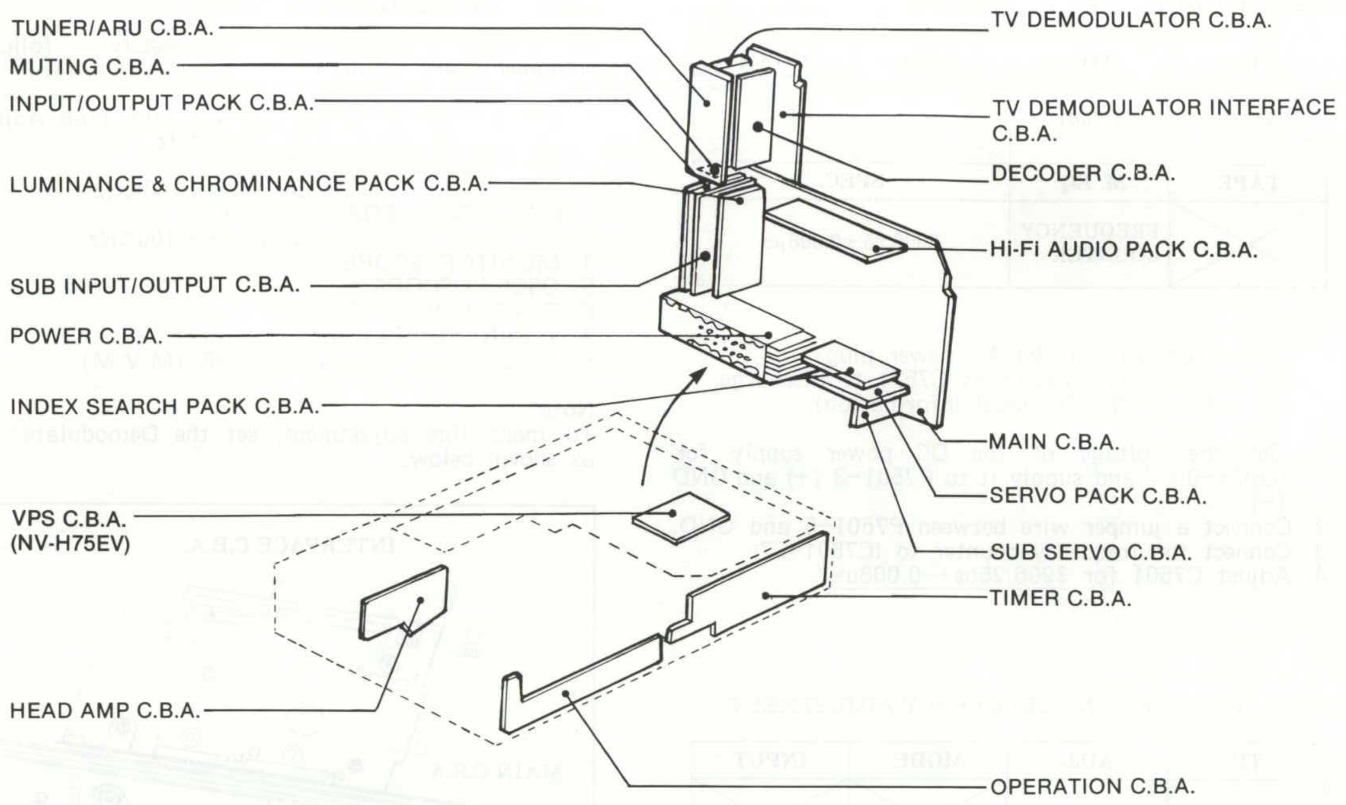


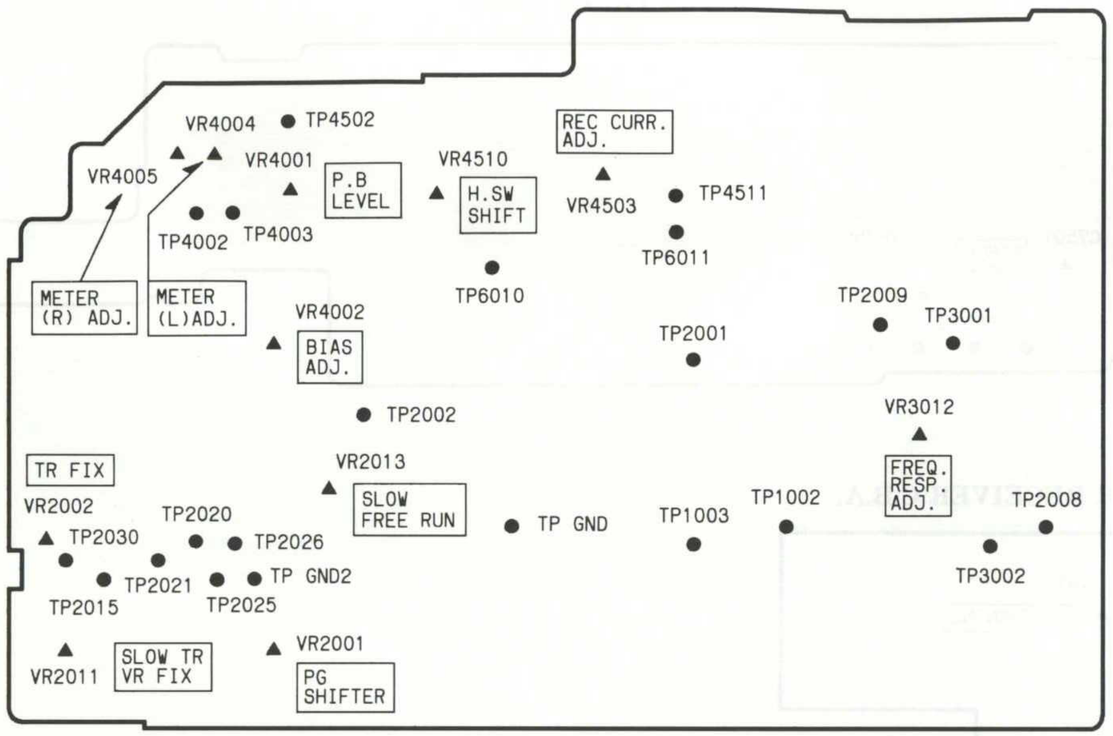
FIG.E17

CIRCUIT BOARD LAYOUT

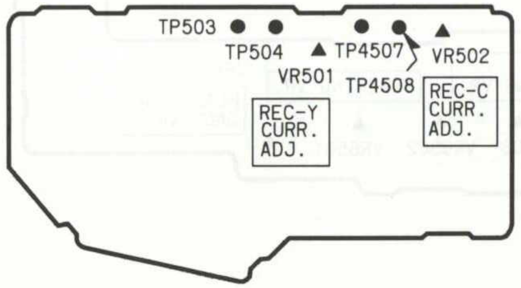


LOCATION OF TEST POINTS & CONTROLS —1—

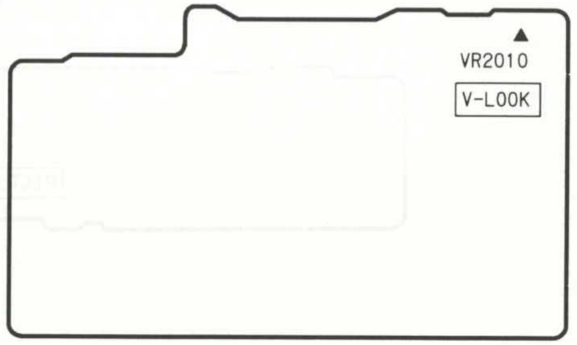
MAIN C.B.A.



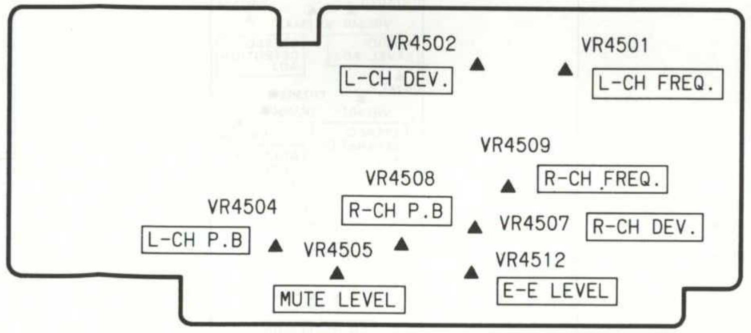
HEAD AMP C.B.A.



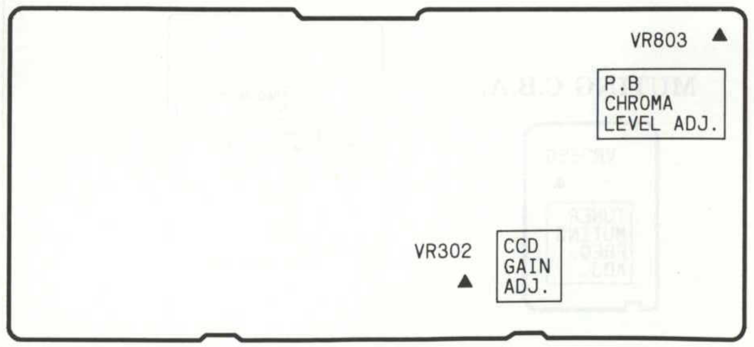
SERVO PACK C.B.A.



Hi-Fi AUDIO PACK C.B.A.



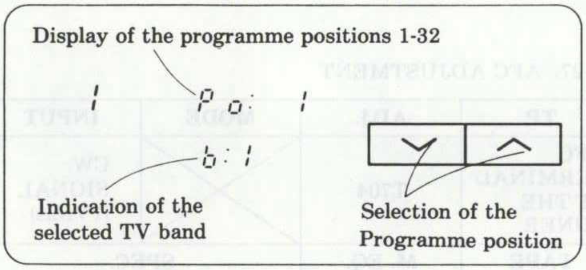
LUMINANCE & CHROMINANCE PACK C.B.A.



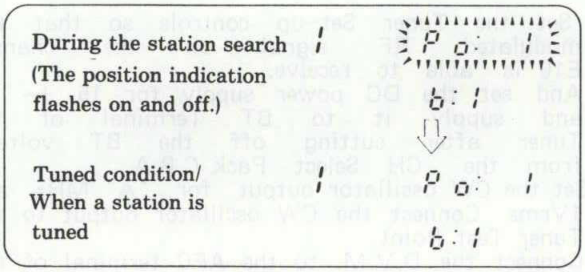
First, remove the Demodulator Unit (Tuner, RF Converter ,Muting C.B.A,TV Demodulator C.B.A,Tuner ARU C.B.A and Decoder C.B.A from Interface C.B.A. Then, connect the Demodulator pack pin and Decoder Pack pin to solder the same portions of the Interface C.B.A. by lead jumper.

Note: AFC ON-OFF
When you make AFC ON or OFF condition, set the VTR as follows.
Preparation
* Set the Input Signal Selector to "Tuner".

(1) Press the PRESET/FINE/NORMAL Button. The indication on the Multi-Function Display changes from the clock indication to the position indication.
(2) Press the Channel Up or Down Button and Band/AFC button to select a programme position (channel) which you want to tune to a TV station.


Display of the programme positions 1-32
P 0 1
b 1
Indication of the selected TV band
Selection of the Programme position

(3) Press the SEARCH /FINE Button until the picture of the desired station on your TV is satisfactory.


During the station search
(The position indication flashes on and off.)
P 0 1
b 1
Tuned condition/ When a station is tuned
P 0 1
b 1

(4) Press the PRESET/NORMAL Button again. The indication on the Multi-Function Display changes to the clock indication.
* Now AFC is "ON" condition.
(5) Press the SEARCH/FINE button in a moment.
* Now AFC is "OFF" condition.

2-4-25. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T703, X717, TUNER CONVERTER COIL		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE	Refer to VIF Specification chart. (FIG. E23)	

1. Set the Tuner Set-up controls so that the modulated RF signal on the channel E10 is able to receive.
And set the DC power supply for 15V and suplly it to BT Terminal of the Tuner after cutting off the BT voltage from CH Select Pack C.B.A.
2. Set the AFC OFF condition.
3. Connect a jumper wire between AGC Terminal of the Tuner and GND.
4. Connect a capasitor (50V/1 uF) between TP703 and GND.
5. Connect the VIF sweep to the Tuner Test Point and connect the monitor scope to TP707 as shown in Fig. E18.

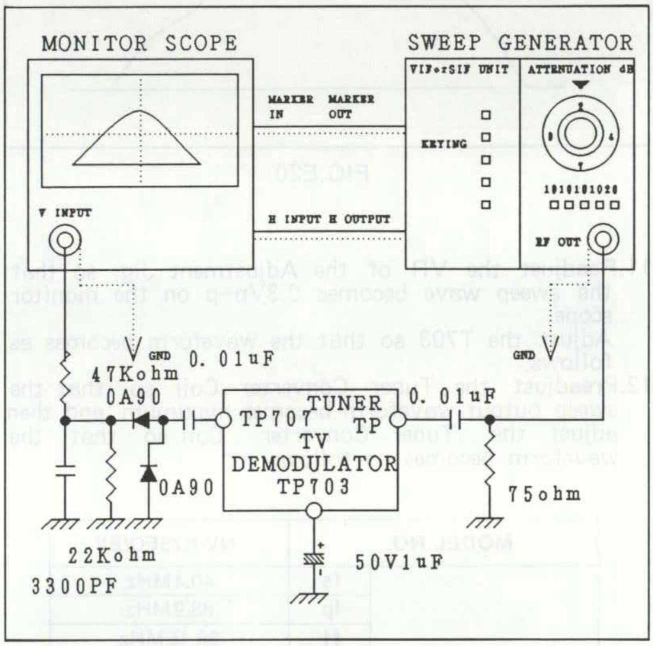


FIG.E18

6. Adjust the output of the VIF sweep generator so that the sweep wave becomes 0.3Vp-p on the monitor scope.
7. Release the attenuator of the VIF sweep generator for 20dB.
8. Connect the JIG to both points TP709 and TV Demodulator C.B.A-(6).

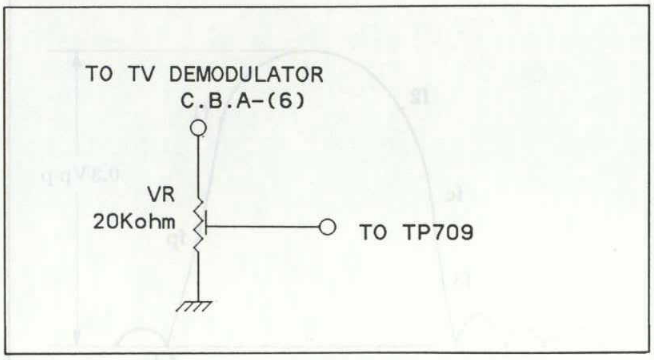


FIG.E19

9. Adjust the VR of the Adjustment Jig. so that the sweep wave becomes 0.3Vp-p on the Monitor scope.
10. Adjust T703 so that the VCO beat is placed to center of waveform as shown below.

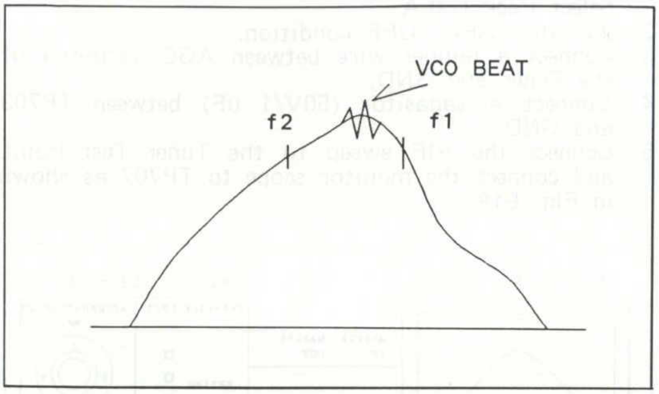


FIG.E20

11. Readjust the VR of the Adjustment Jig. so that the sweep wave becomes 0.3Vp-p on the monitor scope.
    Adjust the T703 so that the waveform becomes as follows.
12. Preadjust the Tuner Converter Coil so that the sweep output waveform becomes maximum and then adjust the Tuner Converter Coil so that the waveform becomes as follows.

MODEL NO.		NV-H75EO/EV
MARKER FREQUENCY	fs′	40.4MHz
	fp	38.9MHz
	f1	38.15MHz
	f2	35.22MHz
	fc	34.47MHz
	f3	33.97MHz
	fs	33.4MHz
	fp′	31.9MHz
SPECIFICATIONS	fp	30±5%
	fc	25±10%

FIG.E21

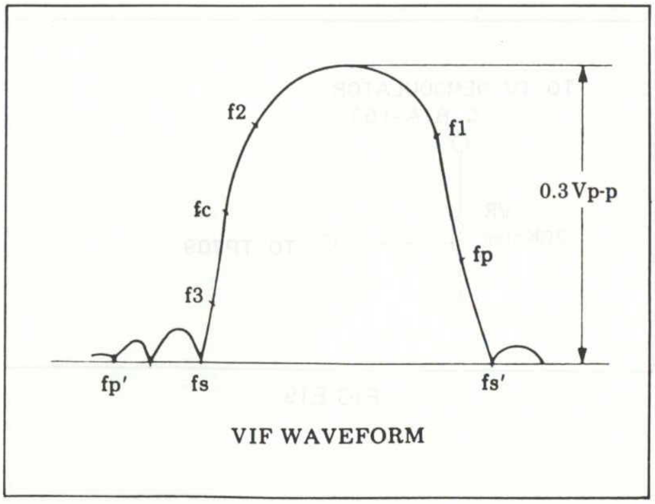


FIG.E22

2-4-26. VCO ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP703	T703		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER/ TUNING AMPLIFIER	38.9MHz±10kHz	

1. Connect a Resistor (1Kohm) between TP709 and GND.
2. Connect the frequency counter to TP704 through the tuning amplifier.
3. Adjust T703 so that the reading of frequency counter is 38.9MHz +- 10KHz.

2-4-27. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
AFC TERMINAL OF THE TUNER	T704		CW SIGNAL (1Vrms)
TAPE	**M. EQ.**	**SPEC.**	
	CW OSCILLATOR/ D.V.M.	A=38.9MHz	

1. Set the Tuner Set-up controls so that the modulated RF signal on the channel E10 is able to receive.
   And set the DC power supply for 15 +- 1V and supply it to BT Terminal of the Tuner after cutting off the BT voltage from the CH Select Pack C.B.A.
2. Set the CW oscillator output for "A" MHz and 1Vrms. Connect the CW oscillator output to the Tuner Test Point.
3. Connect the D.V.M. to the AFC terminal of the tuner.
4. Read the value "B" of the D.V.M., when the AFC is OFF condition.
5. Set the AFC ON condition and adjust T704 for "B" +- 0.3V.
6. Change the frequency of the CW oscillator to "A" (MHz) +- 100KHz, and confirm the difference of the AFC votage is more than +-2V respective.

DECODER SECTION

2-4-28. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. Degital Volt Meter (D.V.M)
2. Oscilloscope
3. Multi Voice Modulator (M.V.M)
4. Frequency counter
5. Noise meter
6. Distortion Meter

Note:

1).To make this adjustment, set the Demodulator Unit as shown in FIG.E17.

2).If output of M.V.M is not indicated,output must be follows.

CH: E10 (Philips Pattern)
Video Modulation: 87.5%
Output: 75dBu
Audio: 1KHz ,100% modulation
(30KHz DEV.)

Free service manuals
Gratis schema's

2-4-29. FM DETECTION TRANSFORMER ADJUSTMENT

TP	ADJ.	MODE	INPUT
DECODER C.B.A. -(11): (L) -(12): (R)	T753 (L) T752 (R)		M.V.M (CHE10)
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M./ OSCILLO-SCOPE/ PATTERN GENERATOR /DISTORTION METER	DISTORTION RATE (L) Less than 1.8% (R) Less than 1.0% OUTPUT LEVEL: MAXIMUM	

1. Supply a video signal (PHILIPS pattern) from the pattern generator to the input of the M.V.M.
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH /FINE button so that the modulated RF signal on the channel E10 is able to receive.
4. Set the AFC ON condition.
5. Connect the oscilloscope and destortion meter to Decoder C.B.A–(11).
6. Adjust T753 so that the output level on the oscilloscope becomes maximum and destortion meter becomes MINIMUM.
7. Connect the oscilloscope and destortion meter to Decoder C.B.A–(12).
8. Adjust T752 so that the output level on the oscilloscope becomes maximum becomes MINIMUM.

2-4-30. SOUND MULTIPLEX DETECTION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7303 TP7304	VR7326 VR7328		M.V.M (CH 10)
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M/ OSCILLO-SCOPE/ PATTERN GENERATOR	WAVEFORM IS MAXIMIZED MORE THAN 5 Vp-p	

1. Supply a video signal (PHILIPS pattern) from the pattern generator to the input of the M.V.M.
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH / FINE BUTTON so that the modulated RF signal on the channel E10 is able to receive.
4. Set the AFC ON condition.
5. Connect the oscilloscope to TP7303.
6. Set the mode switch of the M.V.M to STEREO mode.
7. Adjust VR7326 mutually so that the waveform (117.5Hz) is maximized and then confirm that the STEREO LED on the Deck just lights up. Change the output level of the M.V.M to 45dBu. And then adjust T7301 mutually so that the waveform (117.5Hz) is maximized and then confirm that the STEREO LED on the Deck just lights up.
8. Re–set the mode switch of the M.V.M to Multiplex mode.
9. Re–connect the oscilloscope to TP7304.
10. Adjust VR7328 so that the waveform (274.1Hz) is maximized and then confirm that the Multiplex LED on the Deck just lights up.

Note:
Confirm that the level of the waveforms (117.5Hz and 274.1Hz) are more than 5Vp–p.

2-4-31. STEREO SEPARATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
DECODER C.B.A.-(11)	VR7301		M.V.M (CH 10)
TAPE	**M. EQ.**	**SPEC.**	
	M.V.M/ PATTERN GENERATOR/ NOISE METER	LEVEL IS REMAINDER MORE THAN 30 dB	

1. Supply a video signal (PHILIPS pattern) from the pattern generator to the input of the
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH / FINE BUTTON so that the modulated RF signal on the channel E10 is able to receive.
4. Set the AFC ON condition.
5. Connect the noise meter to Decoder C.B.A–(11).
6. Set the mode switch of the M.V.M to LEFT mode.

7. Read the value "A" of the noise meter, when the mode switch of the M.V.M to LEFT mode.
8. Re-set the mode switch of the M.V.M to RIGHT mode.
9. Adjust VR7301 so that the reading of the noise meter becomes minimum and read the value "B" of the noise meter, when the mode switch of the M.V.M to RIGHT mode.
10. Find the remainder of "A" and "B". Confirm the find one is more than 30dB.

2-4-32. AUDIO OUTPUT LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
DECODER C.B.A. -(11): (L) -(12): (R)	VR7344 (L) VR7340 (R)		M.V.M (CHE10)
TAPE	M. EQ.	SPEC.	
	M.V.M/ NOISE METER/ PATTERN GENERATOR	100±5mVrms	

1. Supply a video signal (PHILIPS pattern) from the pattern generator to the input of the
2. Connect the output of the M.V.M to RF Input of the Deck.
3. Press the SEARCH / FINE BUTTON so that the modulated RF signal on the channel E10 is able to receive.
4. Set the AFC ON condition.
5. Set the mode switch of the M.V.M to LEFT mode.
6. Connect the noise meter to Decoder C.B.A.-(11).
7. Adjust VR7344 for 100 +- 5mVrms.
8. Re-set the mode switch of the M.V.M to RIGHT mode.
9. Re-connect the noise meter to Decoder C.B.A-(12).
10. Adjust VR7340 for 100 +- 5mVrms.

2-4-33. MAIN AUDIO OUTPUT LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
DECODER C.B.A.-(9)	VR751		M.V.M (CHE10)
TAPE	M. EQ.	SPEC.	
	M.V.M/ NOISE METER/ PATTERN GENERATOR	85±5mVrms	

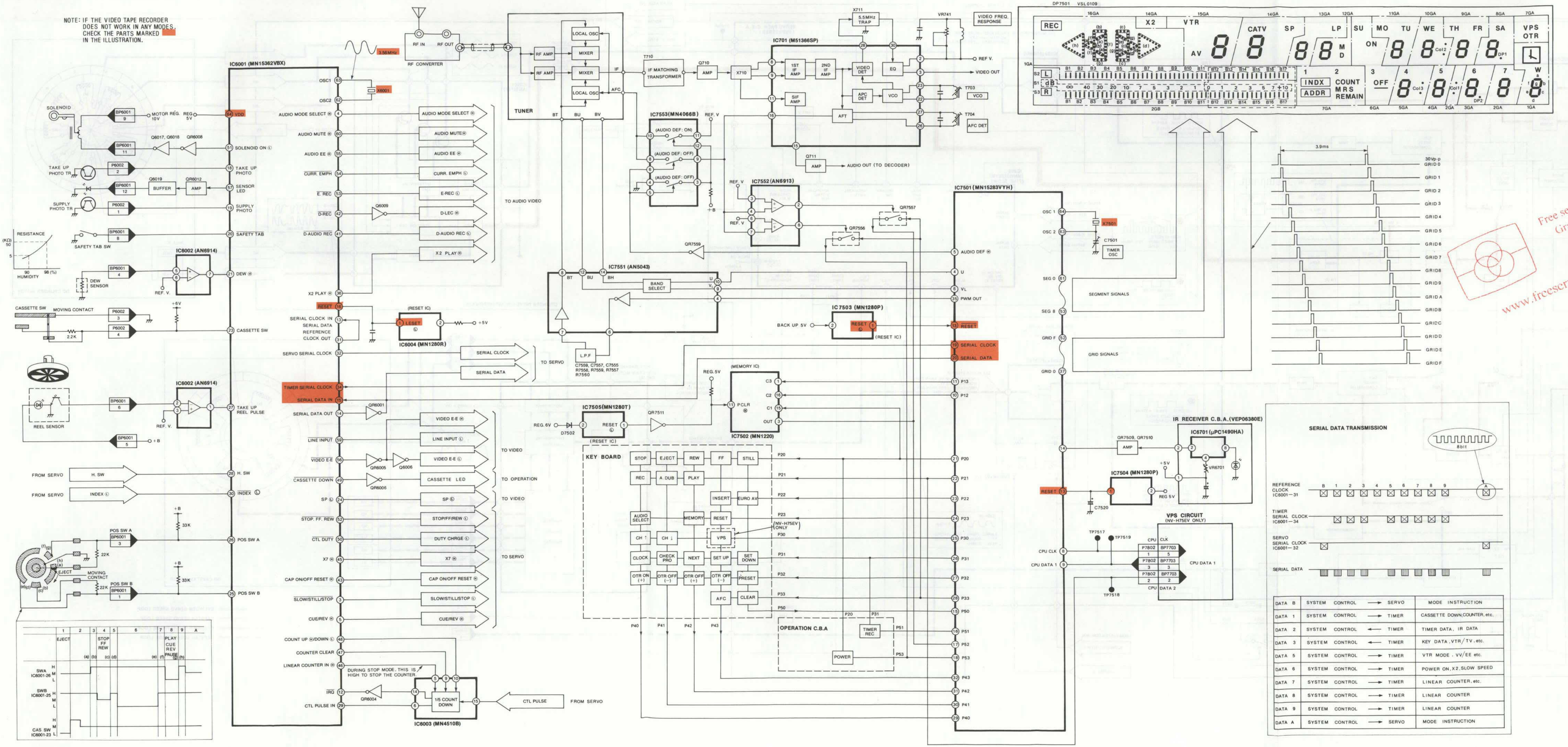
1. Supply a video signal (PHILIPS pattern) from 1the pattern generator to the input of the M.V.M.
2. Connect the output of the M.V.V to RF Input of the Deck.
3. Press the SEARCH / FINE BUTTON so that the modulated RF signal on the channel E10 is received.
4. Set the AFC ON condition.
5. Set the mode switch of the M.V.M to NORMAL mode.
6. Connect the noise meter to the Decoder C.B.A-(9).
7. Adjust VR751 for 85 +- 5mVrms.

3/20/15

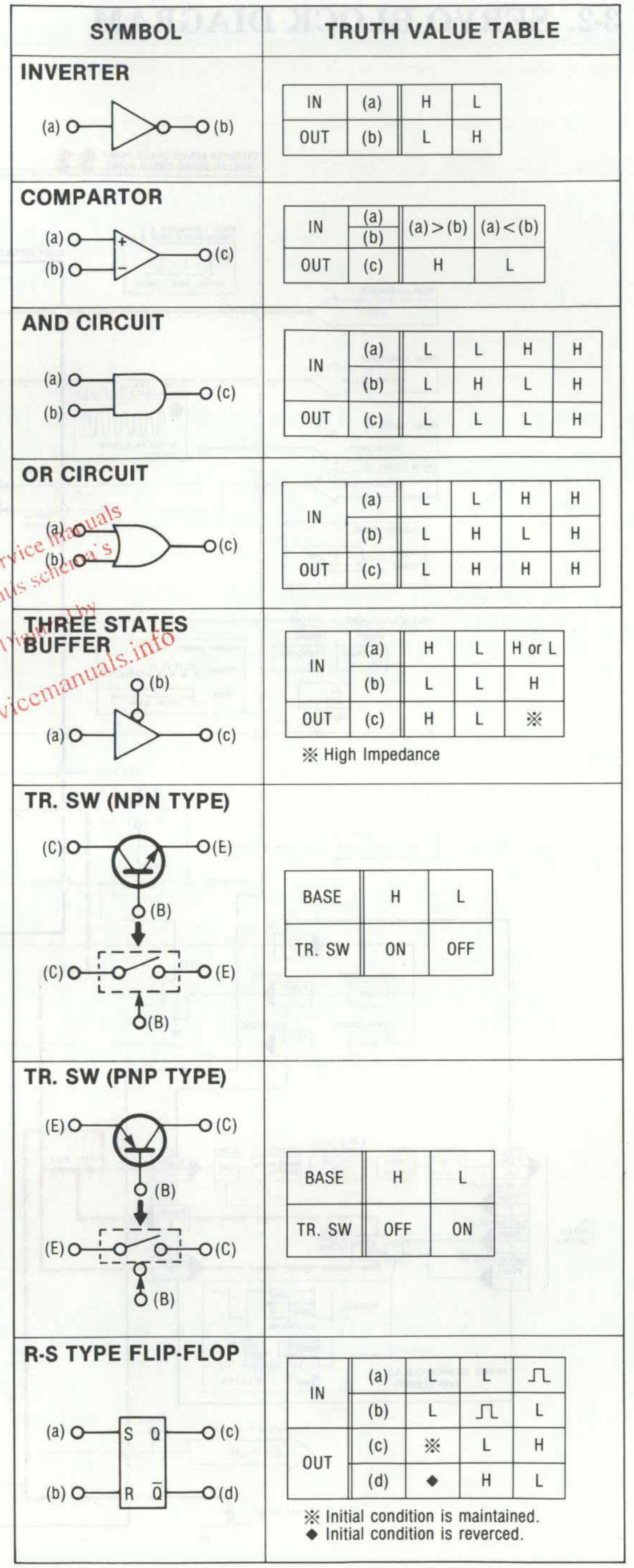
SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

3-1. SYSTEM CONTROL BLOCK DIAGRAM

NOTE: IF THE VIDEO TAPE RECORDER DOES NOT WORK IN ANY MODES. CHECK THE PARTS MARKED 🟧 IN THE ILLUSTRATION.



DATA B	SYSTEM CONTROL → SERVO	MODE INSTRUCTION
DATA 1	SYSTEM CONTROL → TIMER	CASSETTE DOWN,COUNTER, etc.
DATA 2	SYSTEM CONTROL ← TIMER	TIMER DATA, IR DATA
DATA 3	SYSTEM CONTROL ← TIMER	KEY DATA, VTR/TV, etc.
DATA 5	SYSTEM CONTROL → TIMER	VTR MODE, VV/EE etc.
DATA 6	SYSTEM CONTROL → TIMER	POWER ON, X2, SLOW SPEED
DATA 7	SYSTEM CONTROL → TIMER	LINEAR COUNTER, etc.
DATA 8	SYSTEM CONTROL → TIMER	LINEAR COUNTER
DATA 9	SYSTEM CONTROL → TIMER	LINEAR COUNTER
DATA A	SYSTEM CONTROL → SERVO	MODE INSTRUCTION



INVERTER

IN	(a)	H	L
OUT	(b)	L	H

COMPARTOR

IN	(a) (b)	(a)>(b)	(a)<(b)
OUT	(c)	H	L

AND CIRCUIT

IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	L	L	H

OR CIRCUIT

IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	H	H	H

THREE STATES BUFFER

IN	(a)	H	L	H or L
	(b)	L	L	H
OUT	(c)	H	L	※

※ High Impedance

TR. SW (NPN TYPE)

BASE	H	L
TR. SW	ON	OFF

TR. SW (PNP TYPE)

BASE	H	L
TR. SW	OFF	ON

R-S TYPE FLIP-FLOP

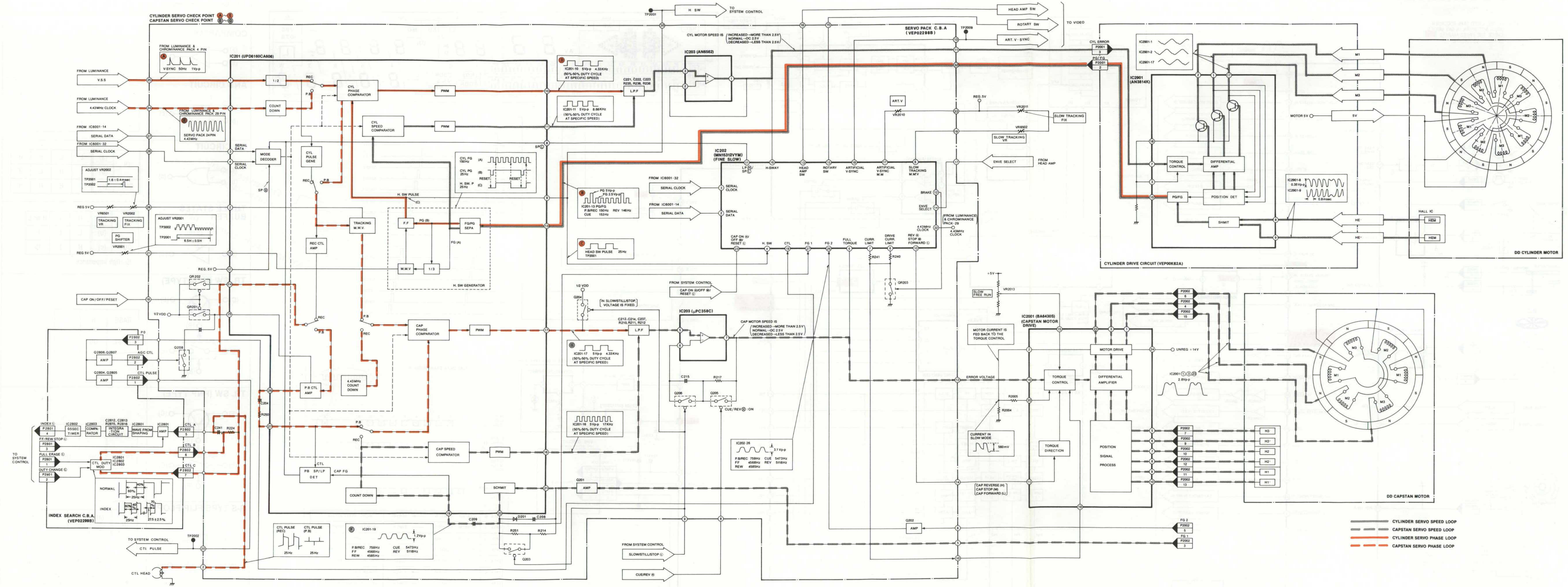
IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	◆	H	L

※ Initial condition is maintained.
◆ Initial condition is reverced.

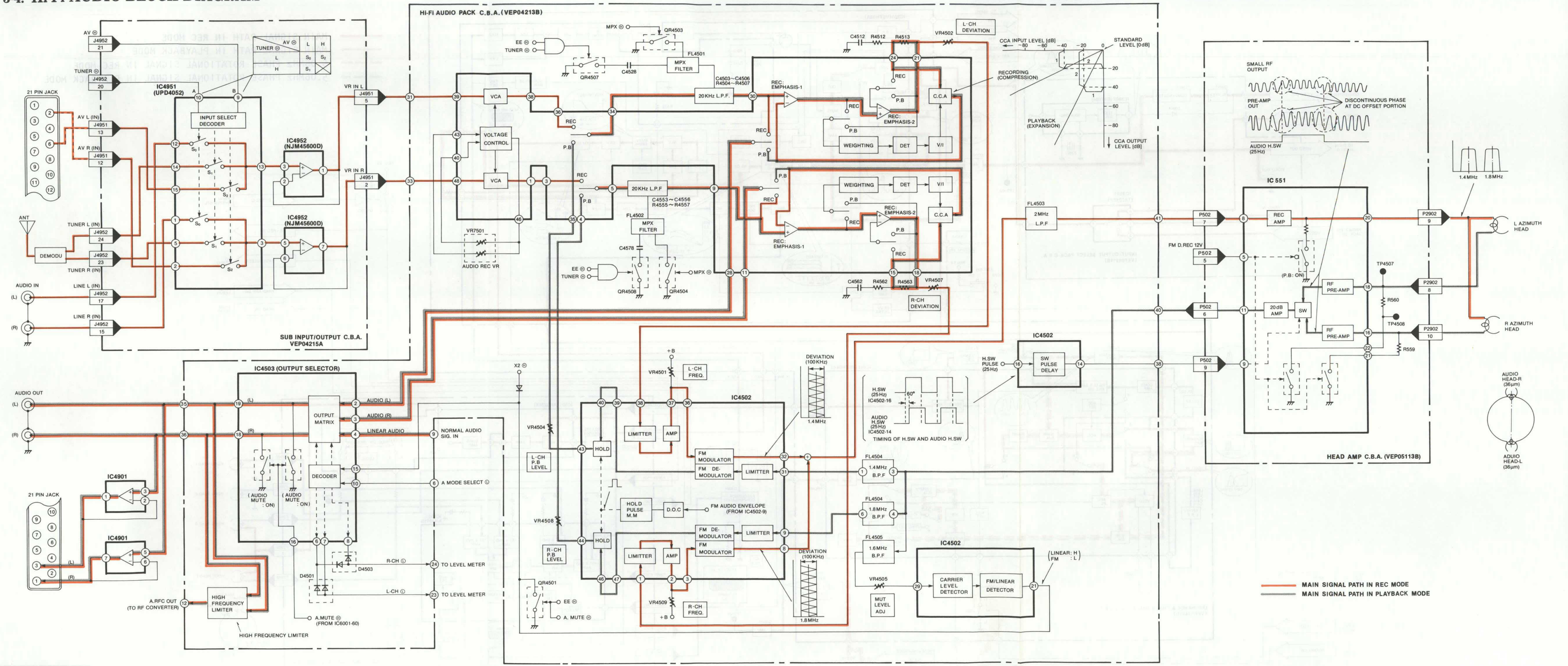
Free service manuals
Gratis schema's

Next Page:
SERVO Section

3-2. SERVO BLOCK DIAGRAM

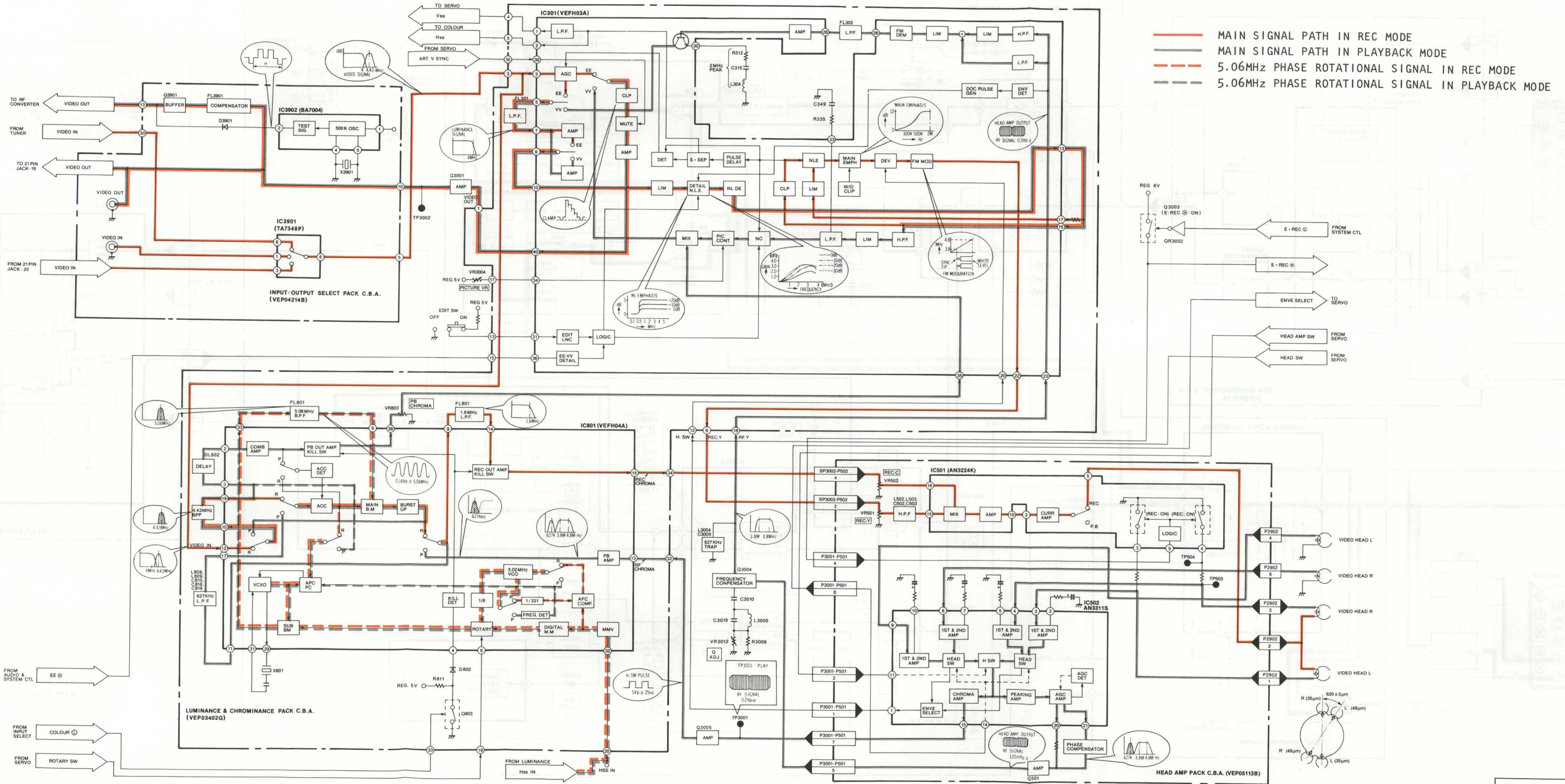


3-4. Hi-Fi AUDIO BLOCK DIAGRAM



3/20/15

3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM



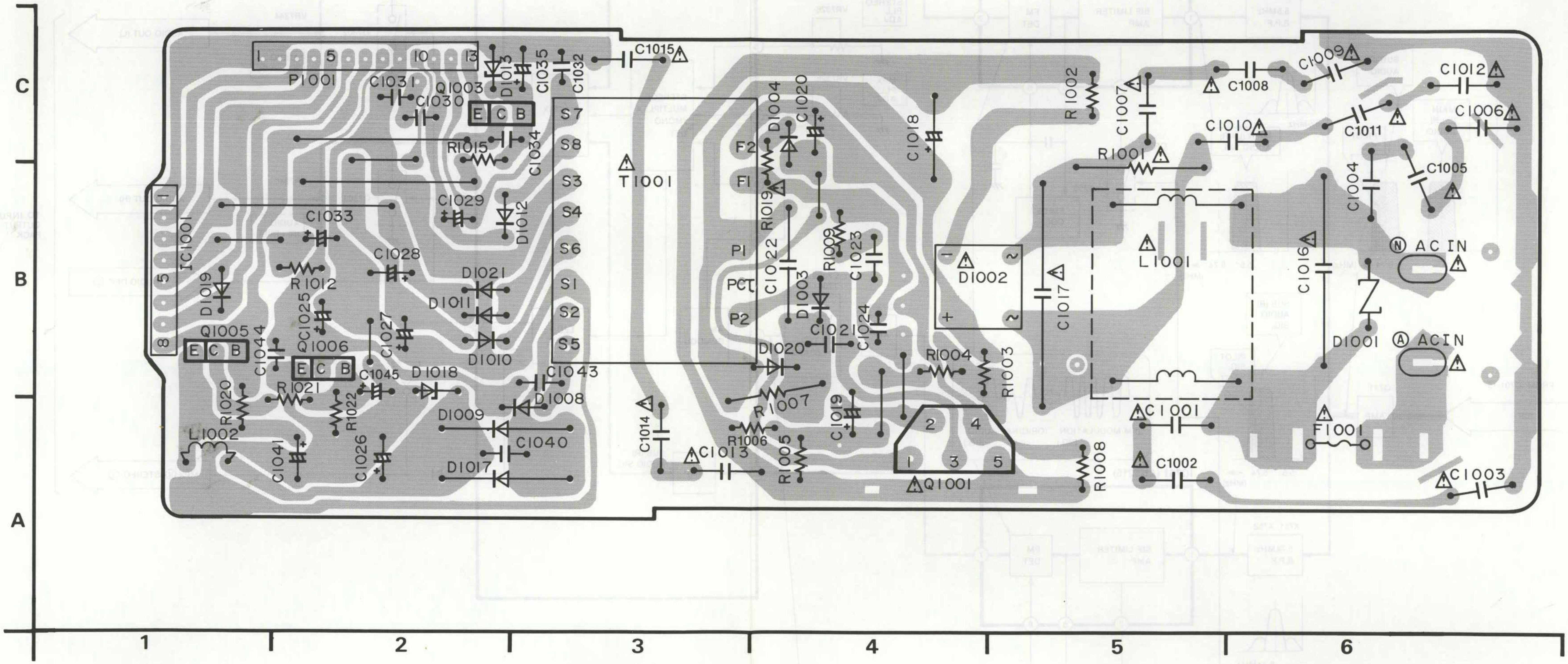
MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE

Next Page:
Hi-Fi AUDIO Section

3-6. POWER C.B.A. (VEP01299B)

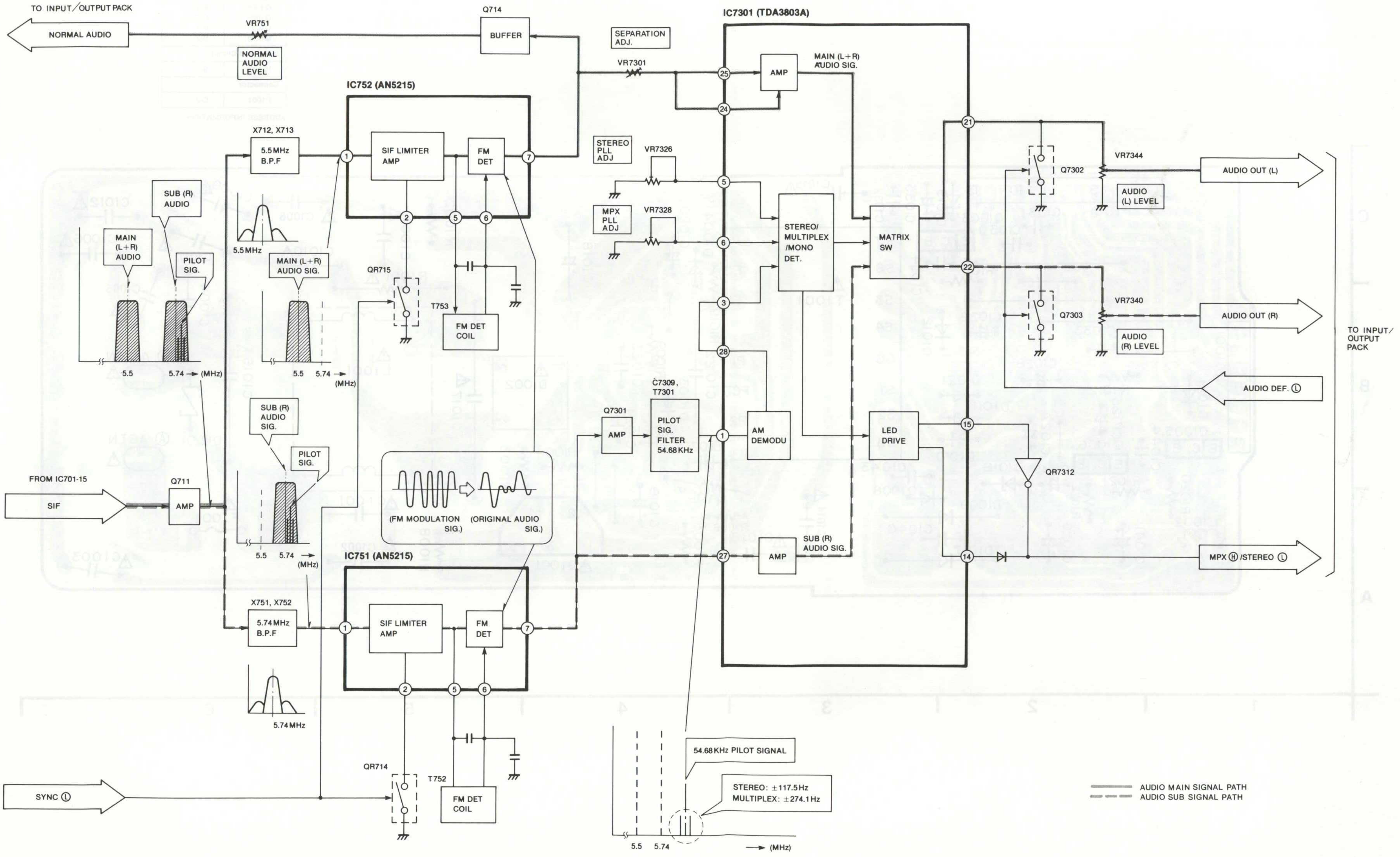
POWER C.B.A.	
Transistor	
Q1001	A-4
Q1003	C-2
Q1005	B-1
Q1006	B-2
Integrated Circuit	
IC1001	B-1
Connector	
P1001	C-2

ADDRESS INFORMATION



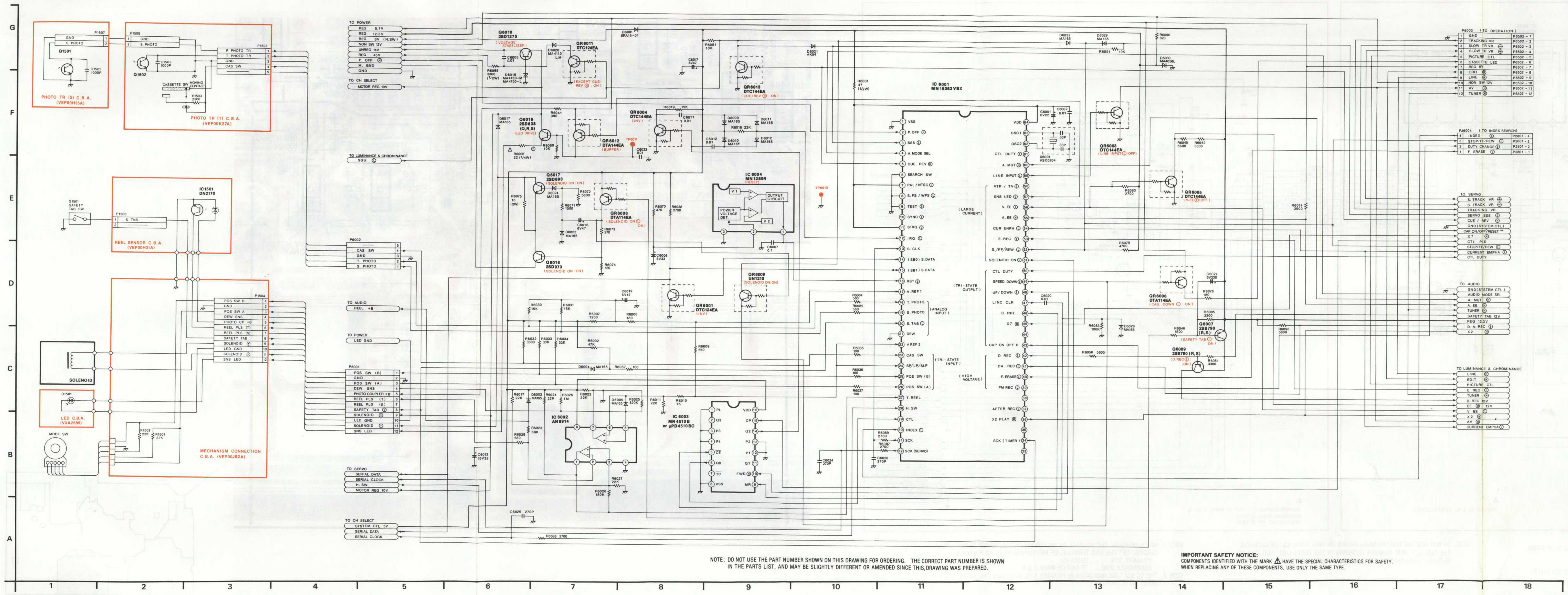
Back Page:
DECODER Section

3-5. DECODER BLOCK DIAGRAM



3/20/15

3-9. SYSTEM CONTROL SCHEMATIC DIAGRAM



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

SYSTEM CONTROL ICs DC VOLTAGE CHART

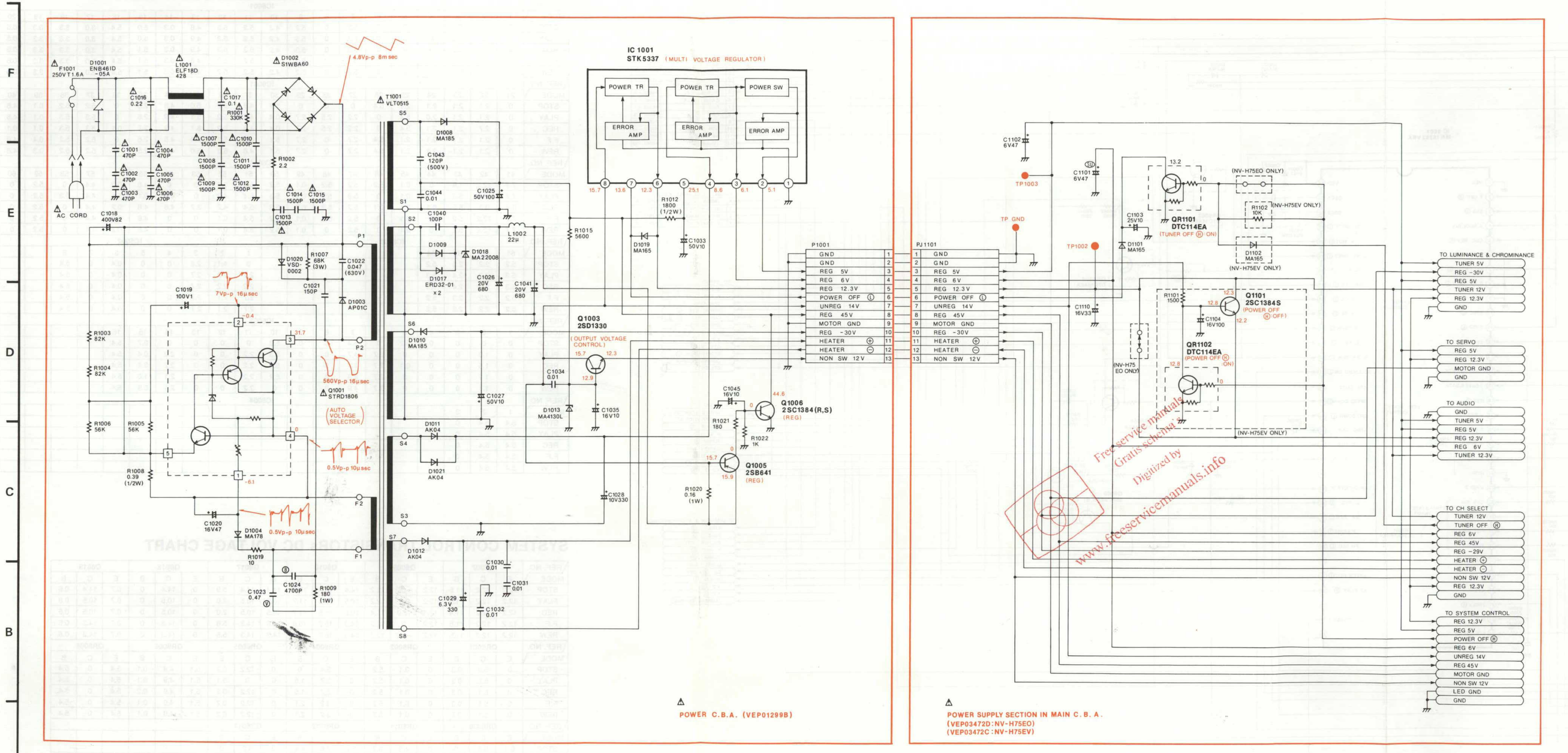
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0.1	0	0	0	5.2	0	5.2	4.2	5.2	5.3	4.8	0.3	5.0	5.4	3.0	3.3	3.3	0.5
PLAY	0	0	5.2	0	0	0	5.3	0	5.3	4.2	5.3	5.3	4.9	0.3	5.0	5.4	3.0	3.3	3.3	0.5
REC	0	0	5.2	0	0	0	5.3	0	5.3	4.2	5.3	5.3	4.9	0.3	5.1	5.4	3.0	3.3	3.3	0.5
F.F	0	0	5.1	0	0	0	5.2	0	5.2	4.2	5.2	5.2	4.8	0.3	5.1	5.4	3.0	3.3	3.3	0.5
REW	0	0	5.1	0	0	0	5.2	0	5.2	4.2	5.2	5.2	4.8	0.3	5.1	5.4	3.0	3.3	3.3	0.5
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.1	2.1	2.1	2.1	5.4	0	0	0	5.1	4.8	5.2	5.0	4.8	2.5	0	5.2	5.2	0.1	4.8
PLAY	0	2.1	2.1	2.0	5.4	0	2.2	2.5	2.7	0.4	4.8	5.2	5.1	4.9	2.6	0	5.3	5.3	0.1	4.8
REC	0	2.7	2.1	2.1	5.4	0	2.2	2.5	2.7	0.4	4.8	5.2	5.1	4.9	2.7	0.1	5.3	5.3	0.1	0.1
F.F	0	2.1	2.1	2.1	2.1	5.4	2.7	0	2.7	5.1	4.8	5.2	5.0	4.8	2.6	0	5.2	5.2	0.4	4.8
REW	0	2.1	2.1	2.1	2.1	5.4	2.7	0	2.7	5.1	4.8	5.2	5.0	4.8	2.5	0	5.2	5.2	0.3	4.8
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	7.7	12.2	1.9	0	0.1	5.2	5.2	5.2	0.1	5.2	5.4	0.1	0	0	4.8	0.2	4.4	0	5.2	0
PLAY	7.7	12.2	5.3	0	0.1	0	5.3	5.3	0.1	5.3	5.4	4.2	0	4.8	0.1	5.1	4.4	0.3	5.2	0
REC	0.4	0.3	5.3	0.1	0.1	0.1	5.3	5.3	0.2	5.3	5.4	4.2	3.7	4.8	4.8	0.2	4.4	0	5.2	0
F.F	7.7	12.2	5.2	0	0.1	0	5.2	5.2	0.1	5.2	5.4	0.1	0	0	4.8	0.2	4.4	0	5.2	0
REW	7.7	12.2	5.2	0	0.1	0	5.2	0	0.1	5.2	5.4	0.1	0	0	4.8	0.2	4.4	0	5.2	0
REF. NO.	IC6001										IC6002									
MODE	61	62	63	64							1	2	3	4	5	6	7	8		
STOP	5.2	2.2	2.3	5.2							0	4.1	2.6	0	0	0.4	0	5.4		
PLAY	5.3	2.2	2.4	5.3							2.2	2.2	2.7	0	0	0.4	0	5.4		
REC	5.3	2.2	2.4	5.3							2.2	2.2	2.7	0	0	0.4	0	5.4		
F.F	5.2	2.2	2.3	5.2							2.7	2.1	2.7	0	0	0.4	0	5.4		
REW	5.2	2.2	2.3	5.2							2.7	2.1	2.7	0	0	0.4	0	5.4		
REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	0	0	5.2	0	5.4	0	0	5.2	0	0	0	0	0.7	5.4				
PLAY	0	1.0	0	0	0	2.7	4.7	0	0	5.3	2.2	0	0	2.2	0.4	5.4				
REC	0	1.5	0	0	0.1	2.7	4.7	0	0	5.3	2.2	0	0	2.2	3.1	5.4				
F.F	0	1.1	0	0	0	2.7	4.9	0	0	5.2	2.2	0	0	2.1	1.0	5.4				
REW	0	1.1	0	0	0	2.7	4.9	0	0	0	2.2	0	0	2.1	0.9	5.4				
REF. NO.	IC6004																			
MODE	1	2	3																	
STOP	5.4	5.4	0																	
PLAY	5.4	5.4	0																	
REC	5.4	5.4	0																	
F.F	5.4	5.4	0																	
REW	5.4	5.4	0																	

SYSTEM CONTROL TRANSISTORs DC VOLTAGE CHART

REF. NO.	Q6007			Q6009			Q6016			Q6017			Q6018			Q6019		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.2	12.2	11.5	12.2	−0.2	12.2	14.4	15.8	15.6	14.4	14.4	5.9	0	14.4	0	0.7	14.4	0.6
PLAY	12.2	12.2	11.5	12.2	0.2	12.2	10.5	15.6	11.7	10.5	10.5	2.0	0	10.5	0	0.7	10.5	0.6
REC	12.2	12.2	11.4	12.1	12.0	11.4	10.5	15.5	11.7	10.5	10.5	2.0	0	10.5	0	0.7	10.5	0.6
F.F	12.2	12.2	11.5	12.2	0	12.2	14.3	15.7	15.6	14.3	14.3	5.8	0	14.3	0	0.7	14.3	0.6
REW	12.2	12.2	11.5	12.2	−0.2	12.2	14.3	15.7	15.6	14.3	14.3	5.8	0	14.3	0	0.7	14.3	0.6
REF. NO.	QR6001			QR6003			QR6004			QR6005			QR6006			QR6008		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	5.0	0.3	0	0.1	5.2	0	5.4	0	0	12.2	0.2	5.1	4.9	0.1	5.4	0	5.4
PLAY	0	5.0	0.3	0	0.1	5.2	0	2.7	1.5	0	0	5.1	5.1	4.9	0.1	5.4	0	5.4
REC	0	5.1	0.3	0	0.1	5.2	0	2.7	1.5	0	12.2	0.2	5.1	4.9	0.2	5.4	0	5.4
F.F	0	5.1	0.3	0	0.1	5.2	0	3.2	2.1	0	12.2	0.2	5.1	4.9	0.1	5.4	0	5.4
REW	0	5.1	0.3	0	0.1	5.2	0	3.2	2.1	0	12.2	0.2	5.1	4.9	0.1	5.4	0	5.4
REF. NO.	QR6009			QR6011			QR6012			QR6013								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0.1	0.2	0	0	4.3	0.2	5.1	0.6	4.4	0	0.2	0						
PLAY	0.1	3.7	0	0	0.1	3.7	5.1	0.6	4.4	0	3.7	0						
REC	0.2	3.7	0	0	0.1	3.7	5.1	0.6	4.4	0	3.7	0						
F.F	0.1	0.7	0	0	4.3	0.7	5.1	0.6	4.4	0	0.7	0						
REW	0.1	0.7	0	0	4.3	0.7	5.1	0.6	4.4	0	0.7	0						

Back Page:
POWER Section

3-7. POWER SCHEMATIC DIAGRAM



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

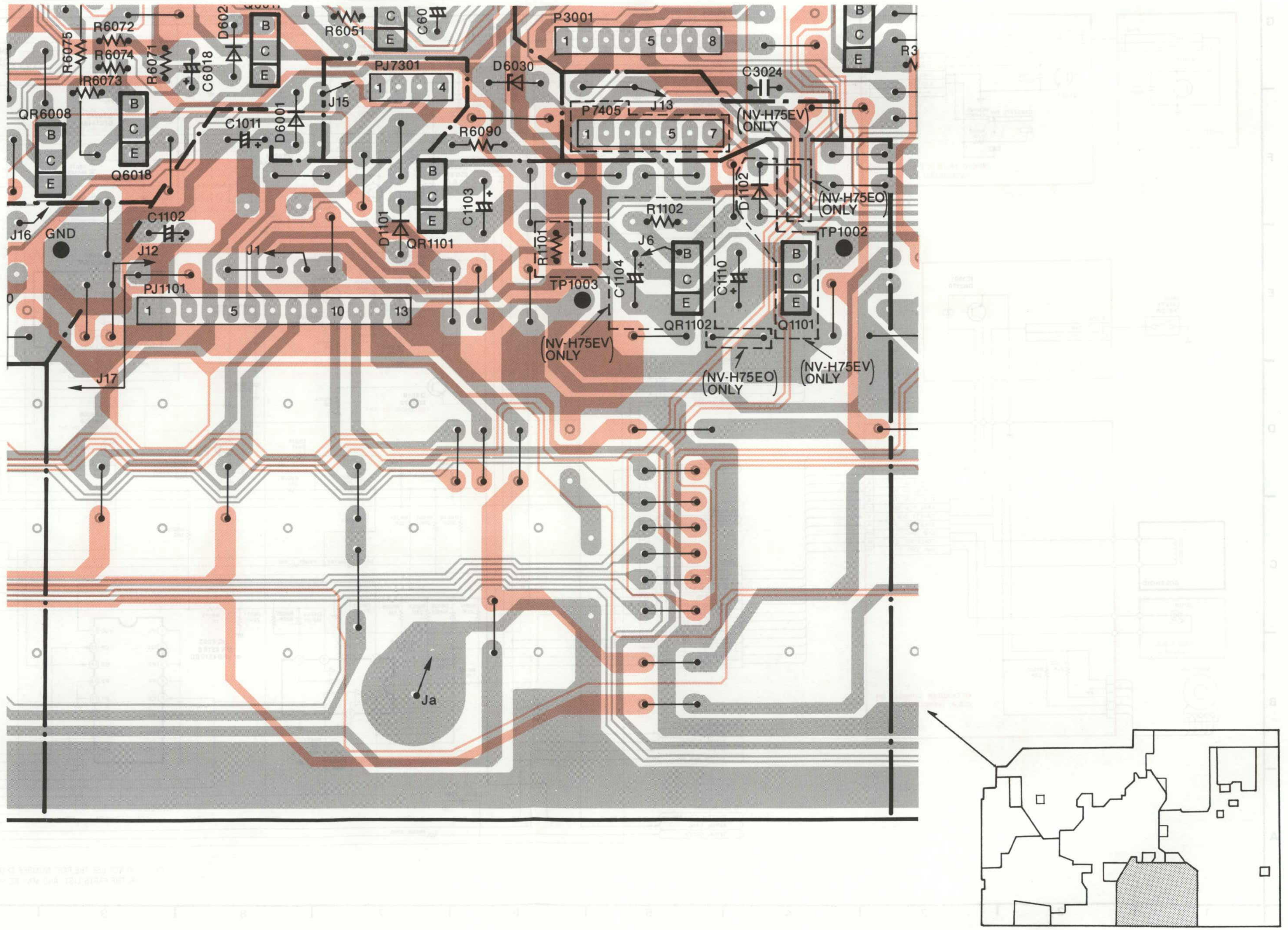
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ..... Q1001-(5)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

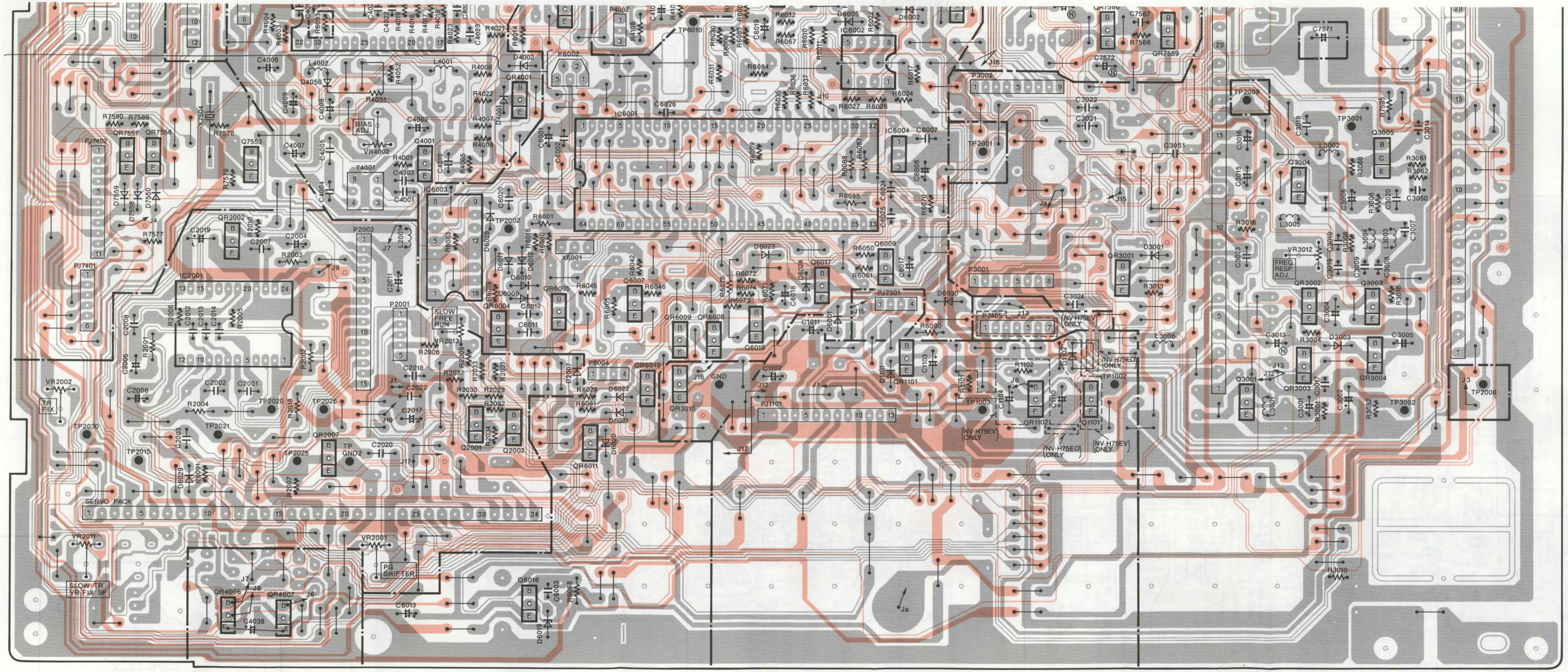
1 2 3 4 5 6 7 8 9 10 11

3-8. POWER SUPPLY Section In Main C.B.A. (VEP03472D: NV-H75EO) (VEP03472C: NV-H75EV)

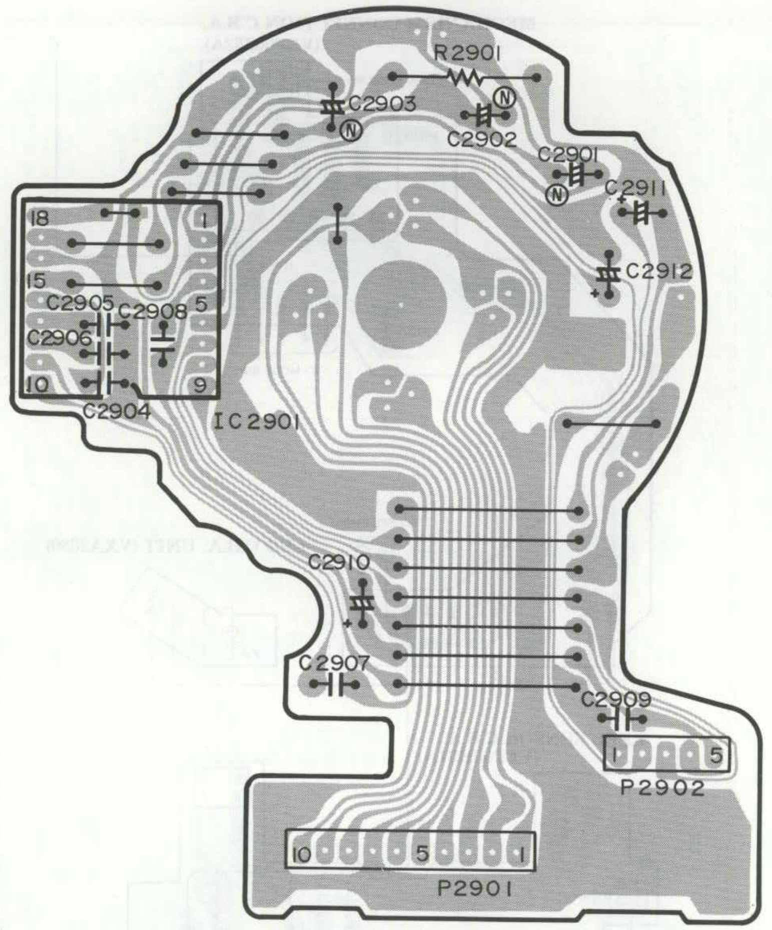


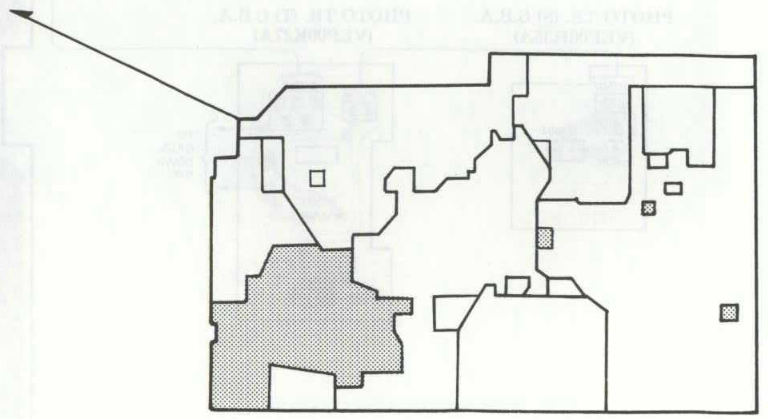
3/20/15

3-11. SERVO Section In Main C.B.A. (VEP03472D: NV-H75EO) (VEP03472C: NV-H75EV)

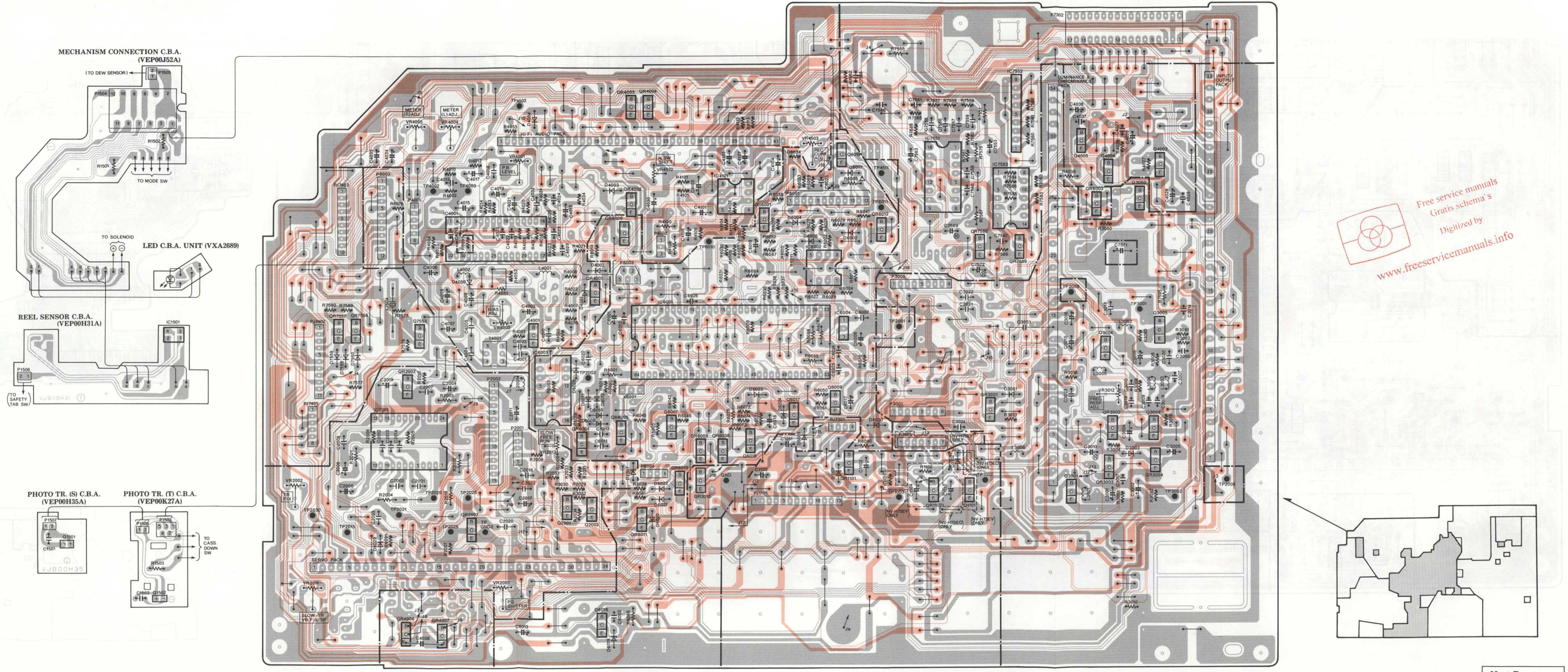


3-12. CYLINDER DRIVE C.B.A.
(VEP00K62A)





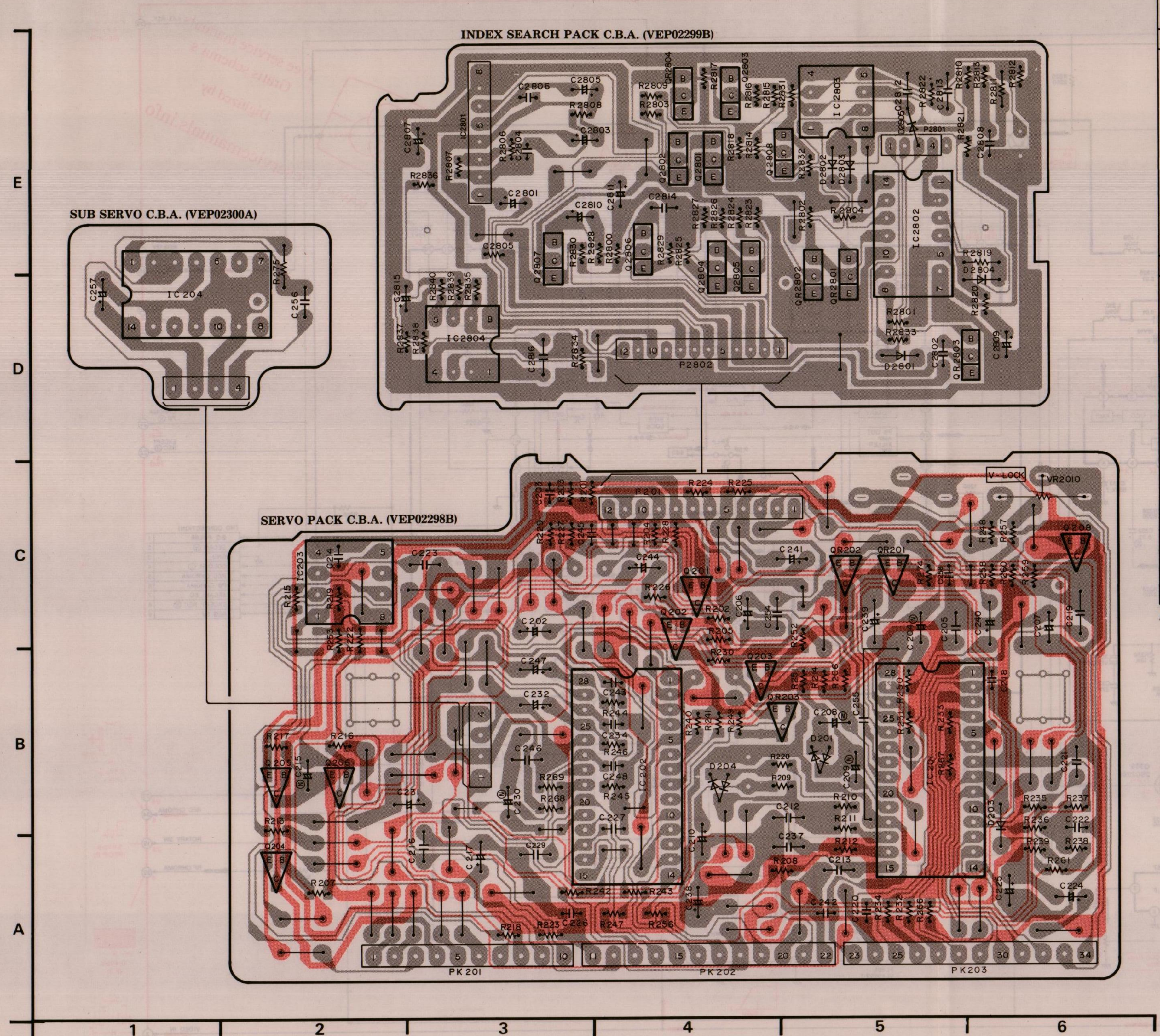
3-10. SYSTEM CONTROL Section In Main C.B.A. (VEP03472D: NV-H75EO) (VEP03472C: NV-H75EV)



Next Page:
SERVO Section

Free service manuals
Gratis schema's

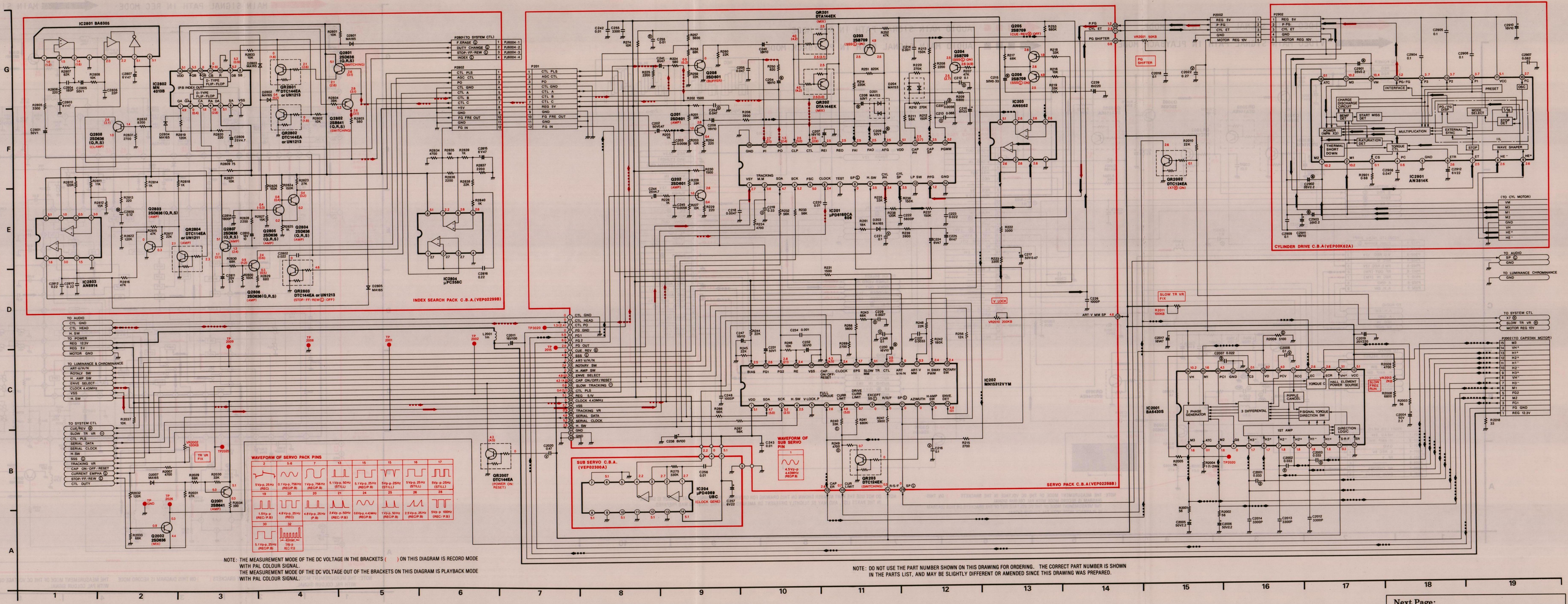
3-13. SERVO PACK C.B.A. (VEP02298B)


INDEX SEARCH PACK C.B.A. (VEP02299B)
SUB SERVO C.B.A. (VEP02300A)
SERVO PACK C.B.A. (VEP02298B)
PK201
PK202
PK203
A
B
C
D
E
1
2
3
4
5
6

SERVO PACK C.B.A. & INDEX SEARCH PACK C.B.A.	
Transistor	
Q201	C-4
Q202	C-4
Q203	B-4
Q204	A-2
Q205	B-2
Q206	B-2
Q208	C-6
Q2801	E-4
Q2802	E-4
Q2804	D-4
Q2805	D-4
Q2806	E-4
Q2807	E-3
Q2808	E-4
Q2817	E-4
Transistor & Resistor	
QR201	C-5
QR202	C-5
QR203	B-4
QR2801	D-5
QR2802	D-5
QR2803	D-6
QR2804	E-4
Integrated Circuit	
IC201	B-5
IC202	B-4
IC203	C-2
IC204	D-1
IC2801	E-3
IC2802	E-5
IC2803	E-5
IC2804	D-3
Adjustment	
VR2010	C-6
Connector	
P201	C-4
P2802	D-4

ADDRESS INFORMATION

3-14. SERVO SCHEMATIC DIAGRAM


CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO SPEED LOOP
INDEX SEARCH PACK C.B.A.(VEP02299B)
SERVO PACK C.B.A.(VEP02298B)
SUB SERVO C.B.A. (VEP02300A)
CYLINDER DRIVE C.B.A.(VEP06K62A)
WAVEFORM OF SERVO PACK PINS
WAVEFORM OF SUB SERVO PIN
5.1Vp-p, 25Hz (REC/P.B)
40msec.
5Vp-p REC/P.B
IC201 BA6305
IC203 AN6514
IC2804 uPC558C
IC2301 AN3814K
IC2801 M5113VM
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

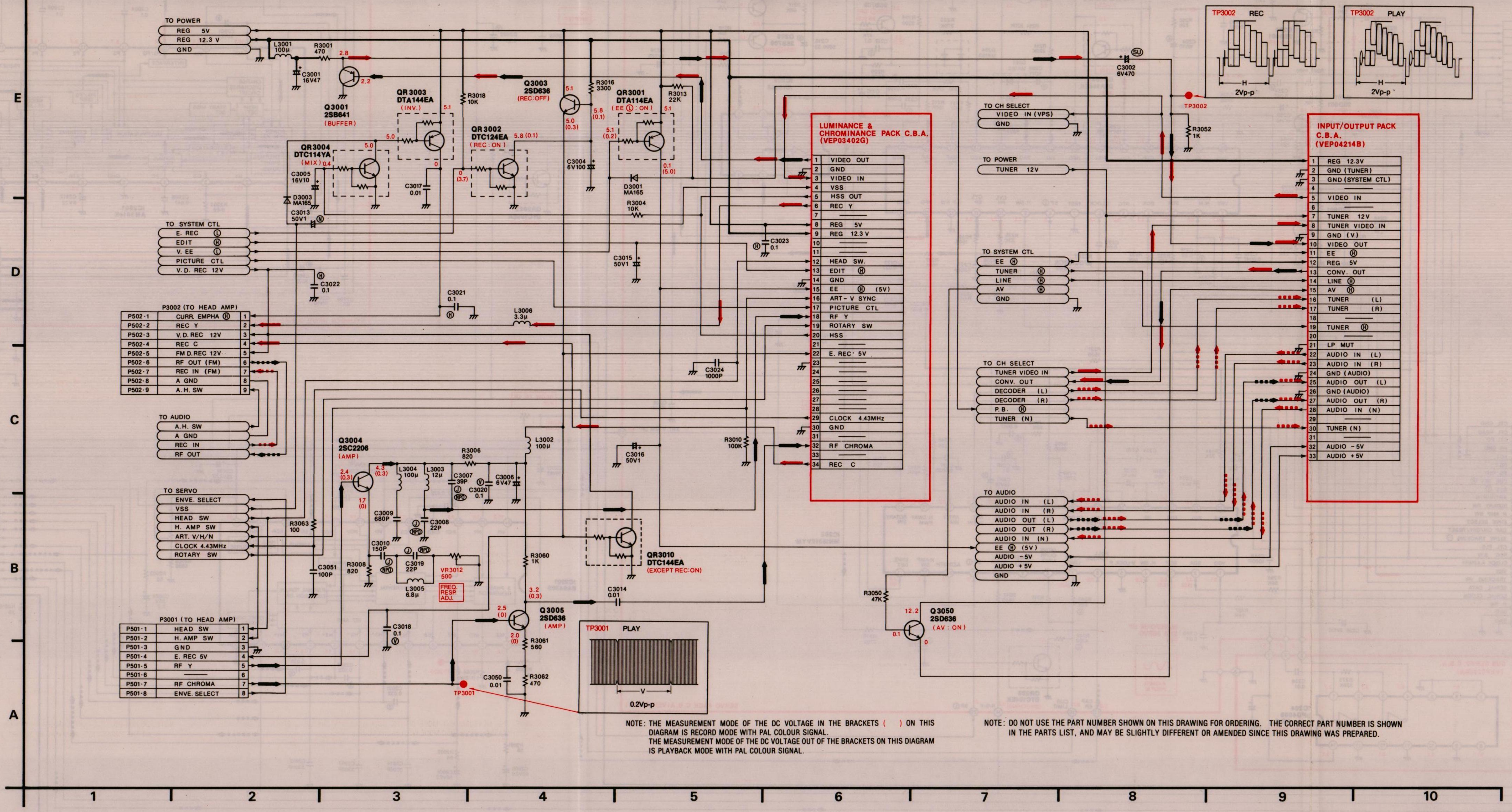
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Next Page:
LUMINANCE & CHROMINANCE Section

3-15. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

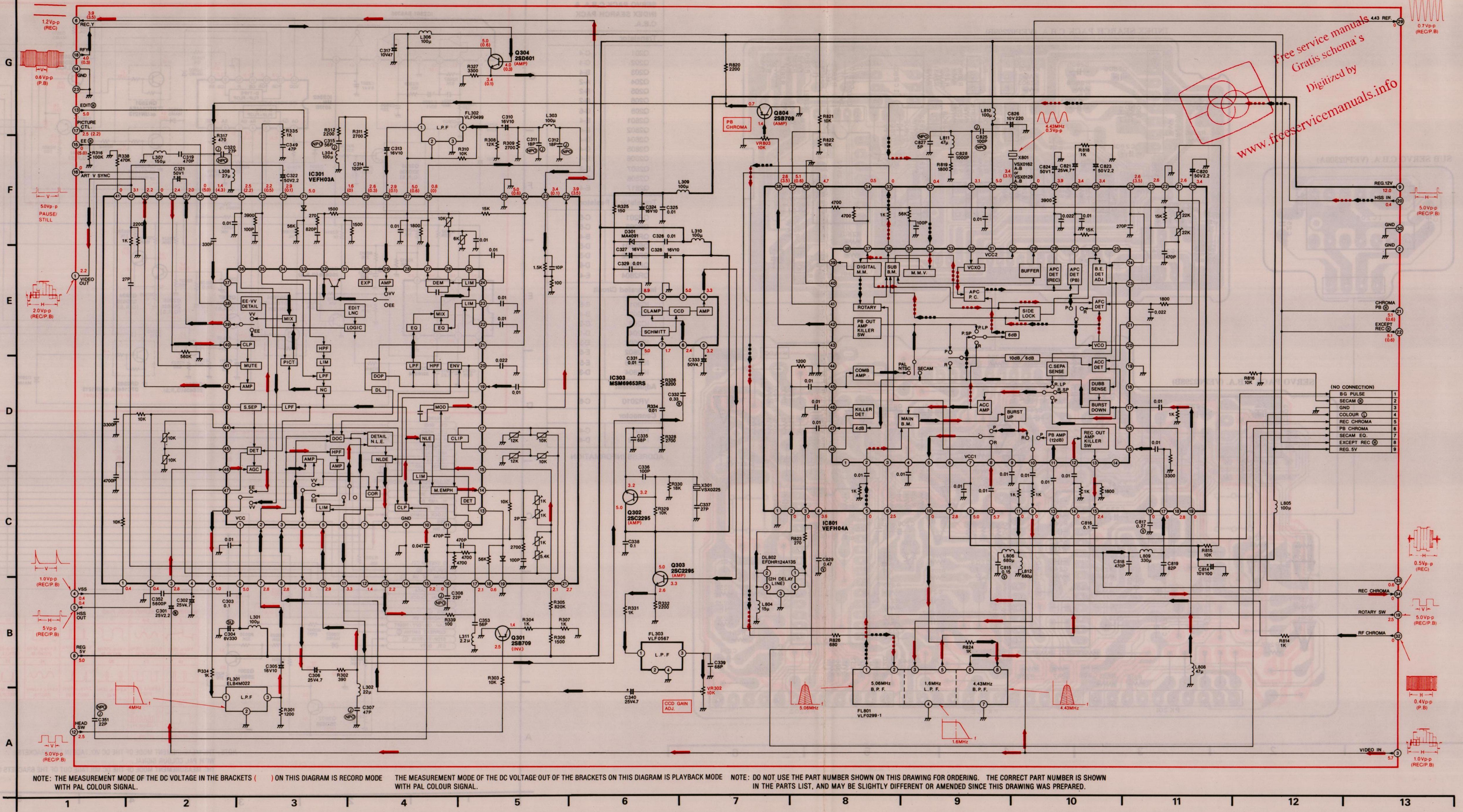


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-16. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE



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NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3/20/15

3-19. INPUT/OUTPUT PACK & SUB INPUT/OUTPUT SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE

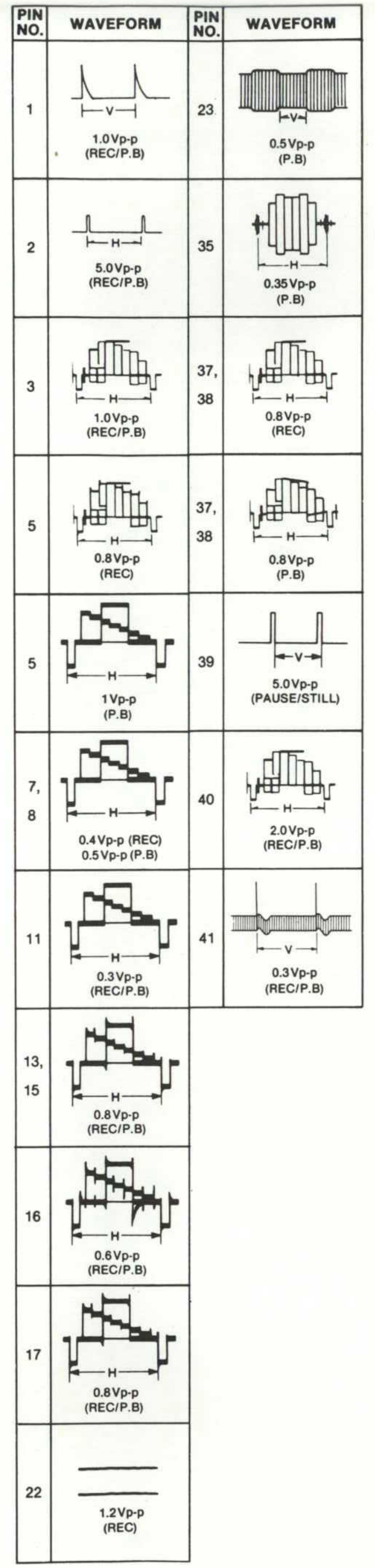
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

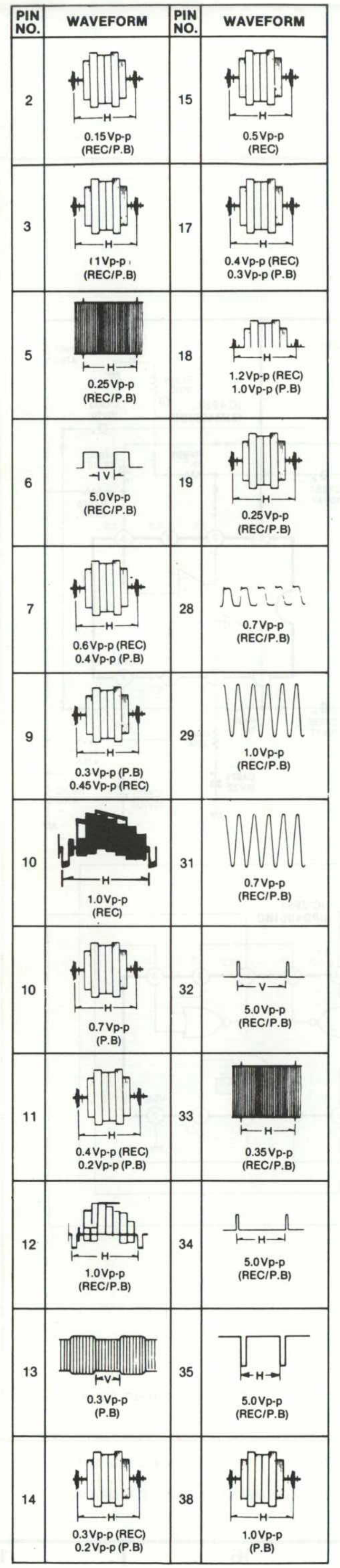
3/20/15

IC301 (VEFH03A)



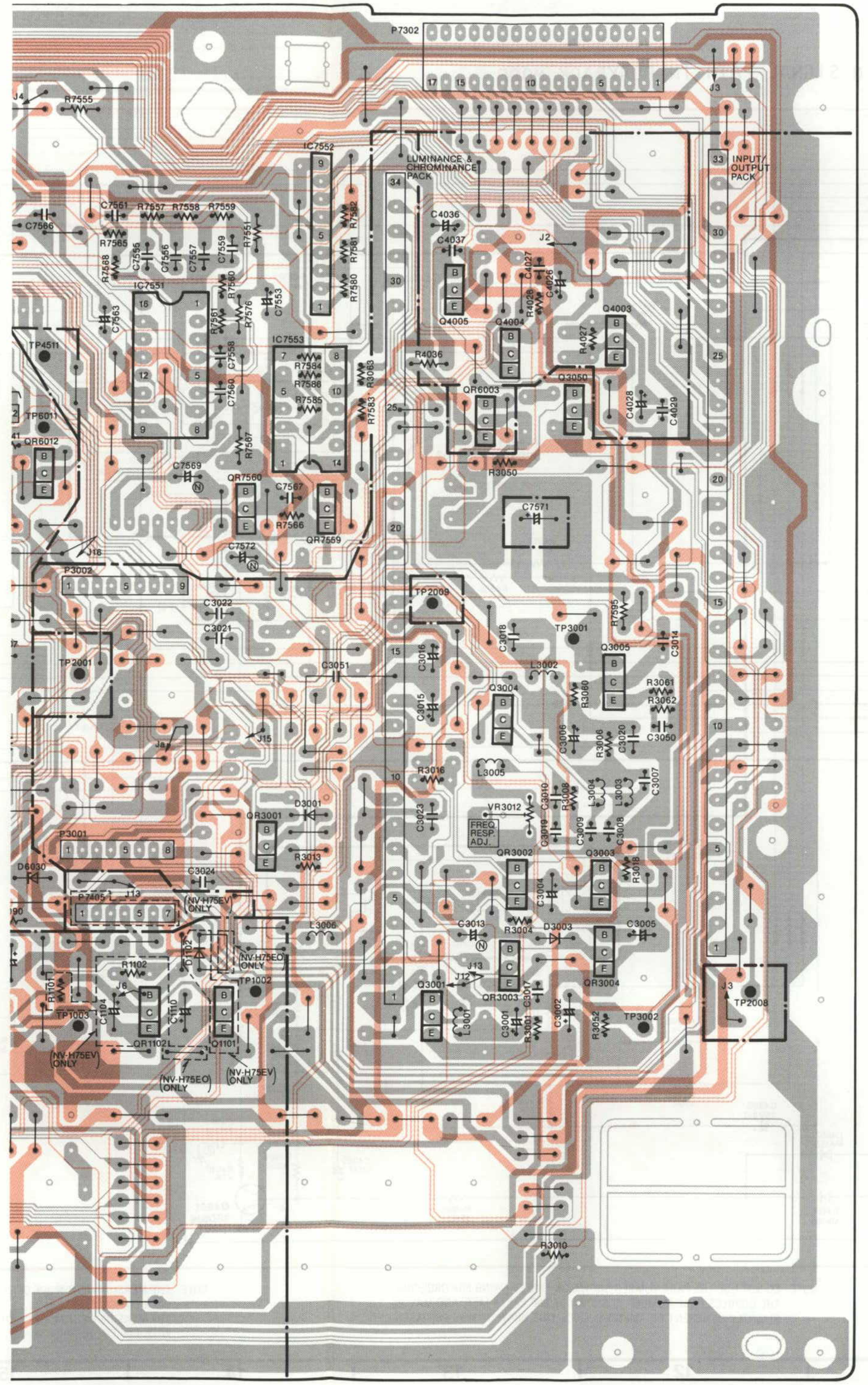
PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	1.0Vp-p (REC/P.B)	23	0.5Vp-p (P.B)
2	5.0Vp-p (REC/P.B)	35	0.35Vp-p (P.B)
3	1.0Vp-p (REC/P.B)	37, 38	0.8Vp-p (REC)
5	0.8Vp-p (REC)	37, 38	0.8Vp-p (P.B)
5	1Vp-p (P.B)	39	5.0Vp-p (PAUSE/STILL)
7, 8	0.4Vp-p (REC) 0.5Vp-p (P.B)	40	2.0Vp-p (REC/P.B)
11	0.3Vp-p (REC/P.B)	41	0.3Vp-p (REC/P.B)
13, 15	0.8Vp-p (REC/P.B)		
16	0.6Vp-p (REC/P.B)		
17	0.8Vp-p (REC/P.B)		
22	1.2Vp-p (REC)		

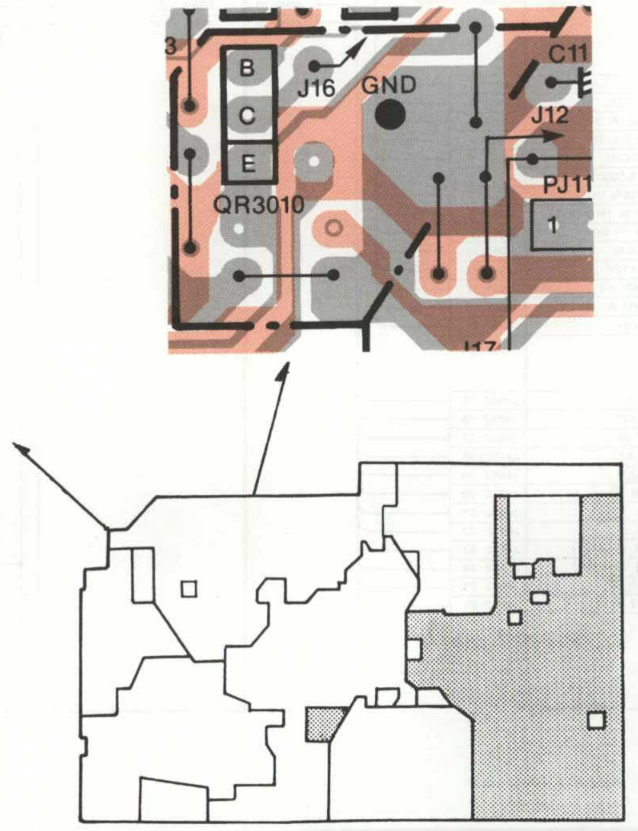
IC801 (VEFH04A)



PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	0.15Vp-p (REC/P.B)	15	0.5Vp-p (REC)
3	1Vp-p (REC/P.B)	17	0.4Vp-p (REC) 0.3Vp-p (P.B)
5	0.25Vp-p (REC/P.B)	18	1.2Vp-p (REC) 1.0Vp-p (P.B)
6	5.0Vp-p (REC/P.B)	19	0.25Vp-p (REC/P.B)
7	0.6Vp-p (REC) 0.4Vp-p (P.B)	28	0.7Vp-p (REC/P.B)
9	0.3Vp-p (P.B) 0.45Vp-p (REC)	29	1.0Vp-p (REC/P.B)
10	1.0Vp-p (REC)	31	0.7Vp-p (REC/P.B)
10	0.7Vp-p (P.B)	32	5.0Vp-p (REC/P.B)
11	0.4Vp-p (REC) 0.2Vp-p (P.B)	33	0.35Vp-p (REC/P.B)
12	1.0Vp-p (REC/P.B)	34	5.0Vp-p (REC/P.B)
13	0.3Vp-p (P.B)	35	5.0Vp-p (REC/P.B)
14	0.3Vp-p (REC) 0.2Vp-p (P.B)	38	1.0Vp-p (P.B)

3-17. LUMINANCE & CHROMINANCE Section In Main C.B.A. (VEP03472D: NV-H75EO) (VEP03472C: NV-H75EV)

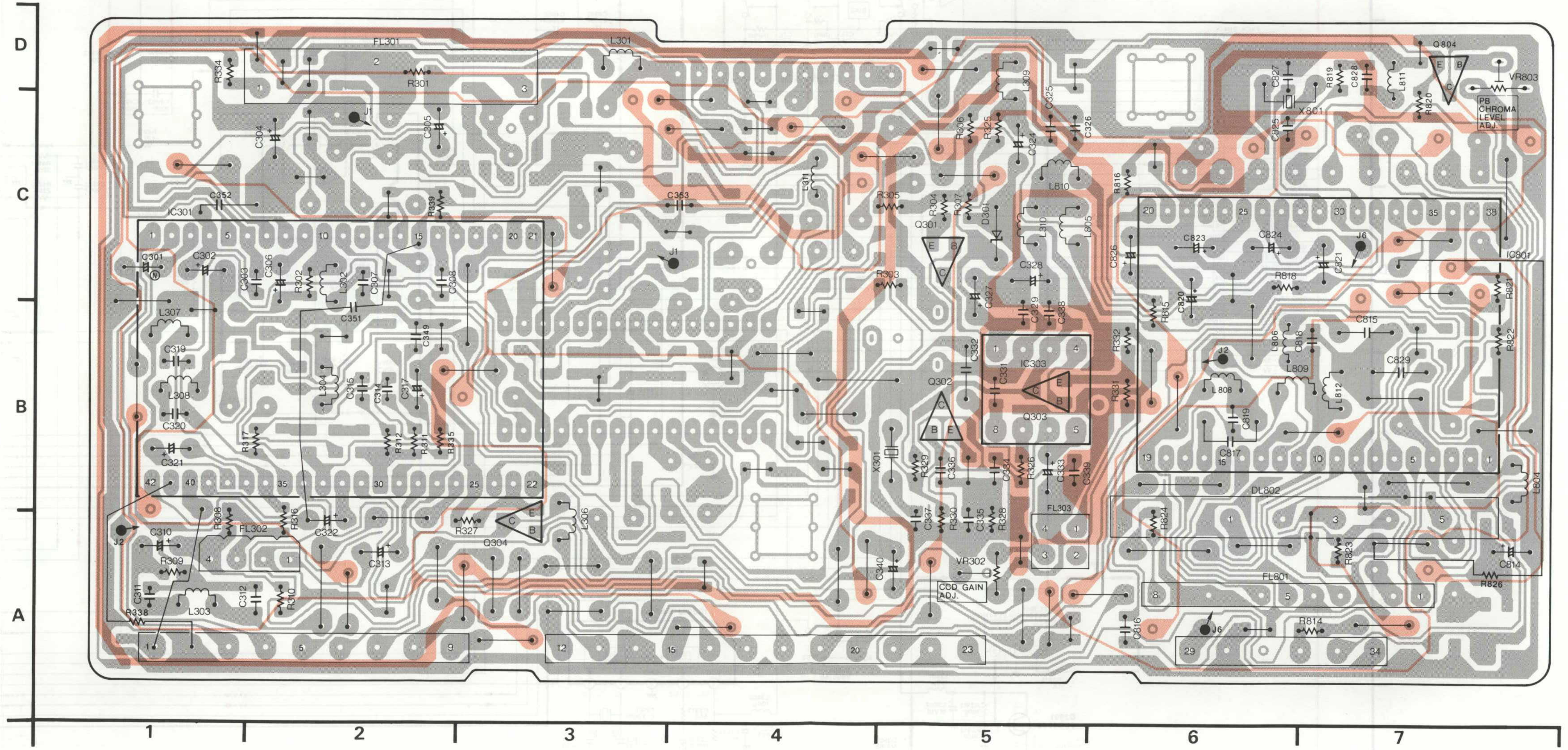




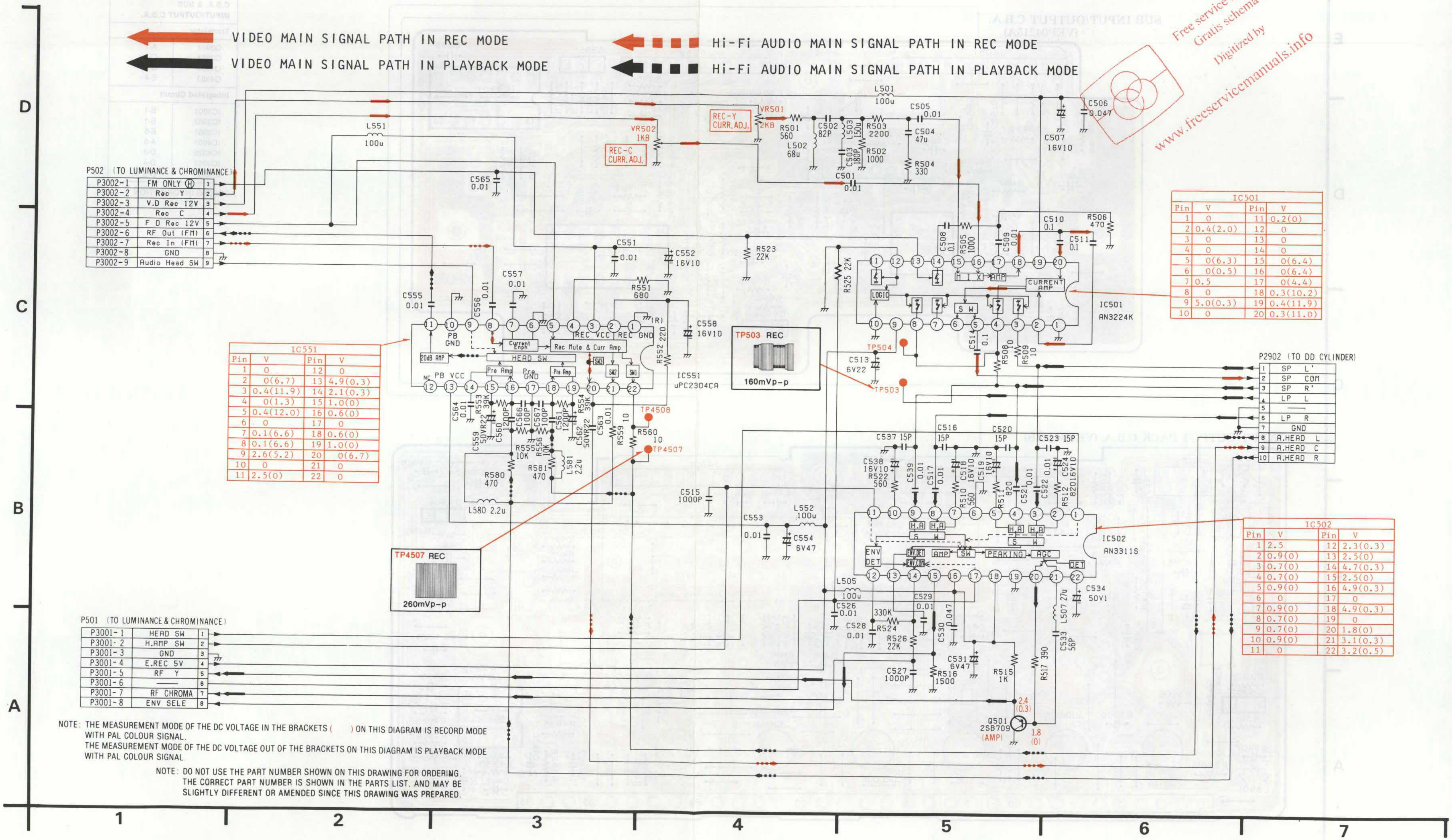
LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q301	C-5
Q302	B-5
Q303	B-5
Q304	A-3
Q804	D-7
Integrated Circuit	
IC301	C-1
IC303	B-5
IC801	C-7
Adjustment	
VR302	A-5
VR803	D-7

ADDRESS INFORMATION

3-18. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402G)



3-21. HEAD AMP SCHEMATIC DIAGRAM



IC551			
Pin	V	Pin	V
1	0	12	0
2	0(6.7)	13	4.9(0.3)
3	0.4(11.9)	14	2.1(0.3)
4	0(1.3)	15	1.0(0)
5	0.4(12.0)	16	0.6(0)
6	0	17	0
7	0.1(6.6)	18	0.6(0)
8	0.1(6.6)	19	1.0(0)
9	2.6(5.2)	20	0(6.7)
10	0	21	0
11	2.5(0)	22	0

IC501			
Pin	V	Pin	V
1	0	11	0.2(0)
2	0.4(2.0)	12	0
3	0	13	0
4	0	14	0
5	0(6.3)	15	0(6.4)
6	0(0.5)	16	0(6.4)
7	0.5	17	0(4.4)
8	0	18	0.3(10.2)
9	5.0(0.3)	19	0.4(11.9)
10	0	20	0.3(11.0)

IC502			
Pin	V	Pin	V
1	2.5	12	2.3(0.3)
2	0.9(0)	13	2.5(0)
3	0.7(0)	14	4.7(0.3)
4	0.7(0)	15	2.5(0)
5	0.9(0)	16	4.9(0.3)
6	0	17	0
7	0.9(0)	18	4.9(0.3)
8	0.7(0)	19	0
9	0.7(0)	20	1.8(0)
10	0.9(0)	21	3.1(0.3)
11	0	22	3.2(0.5)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

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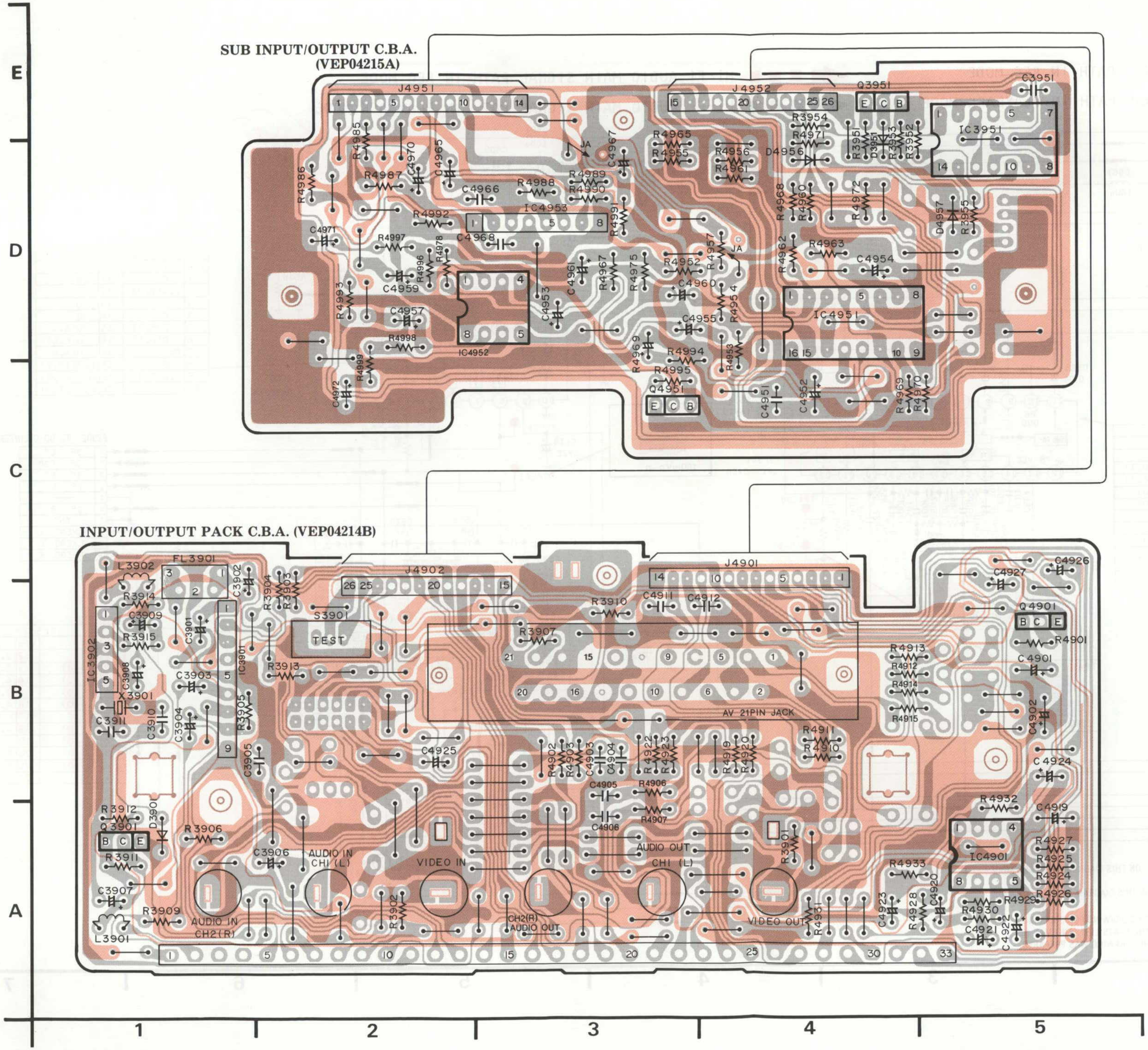
Back Page:
INPUT/OUTPUT Section

3-20. INPUT/OUTPUT PACK C.B.A. (VEP04214B) & SUB INPUT/OUTPUT C.B.A. (VEP04215A)



SUB INPUT/OUTPUT C.B.A. (VEP04215A)

INPUT/OUTPUT PACK C.B.A. (VEP04214B)

INPUT/OUTPUT PACK C.B.A. & SUB INPUT/OUTPUT C.B.A.	
Transistor	
Q3901	A-1
Q3951	C-3
Q4901	B-5
Q4951	E-4
Integrated Circuit	
IC3901	B-1
IC3902	B-1
IC3951	E-5
IC4901	A-5
IC4925	D-3
IC4951	D-4
IC4953	D-3

ADDRESS INFORMATION

3-23. AUDIO SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

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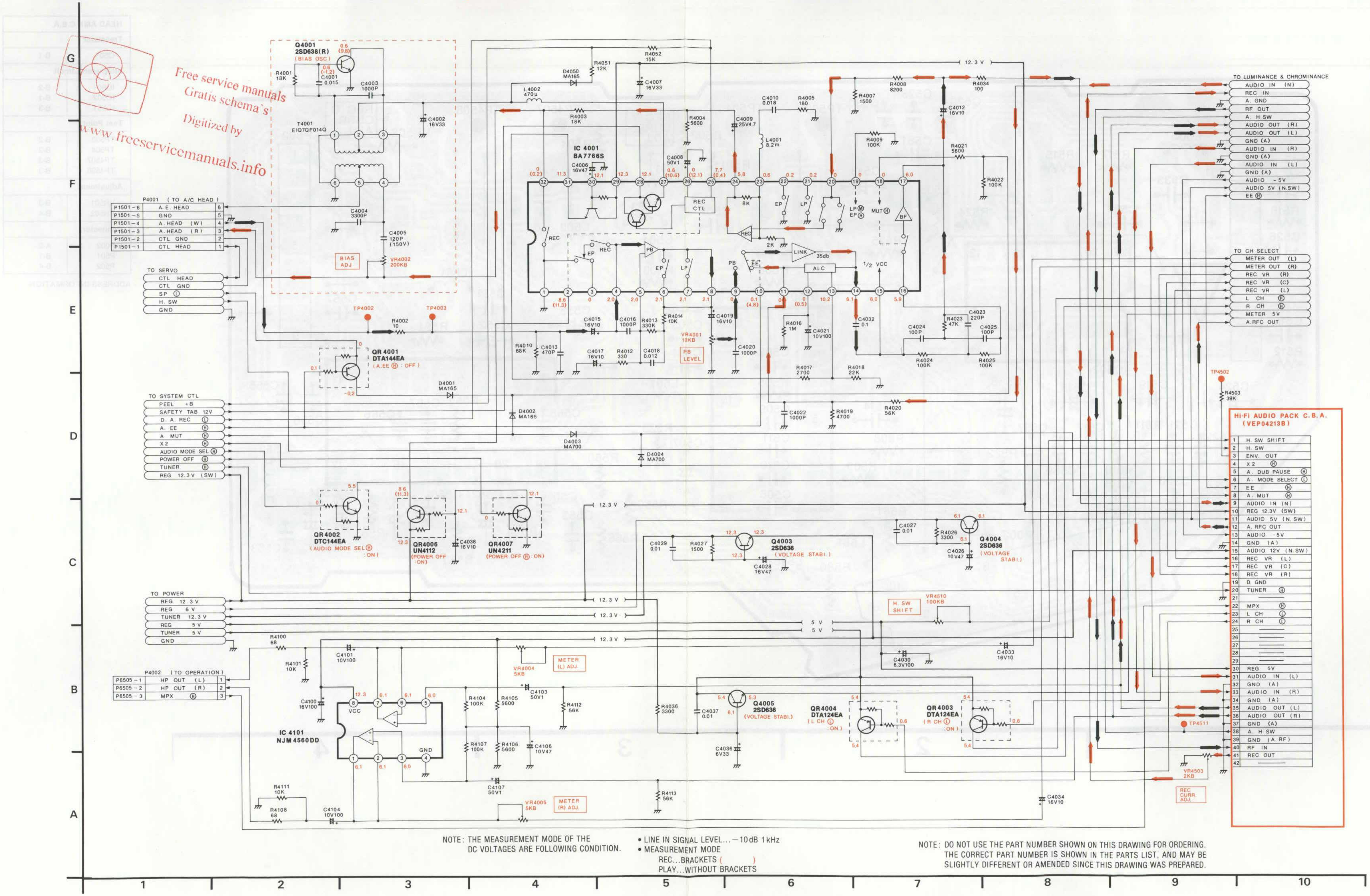


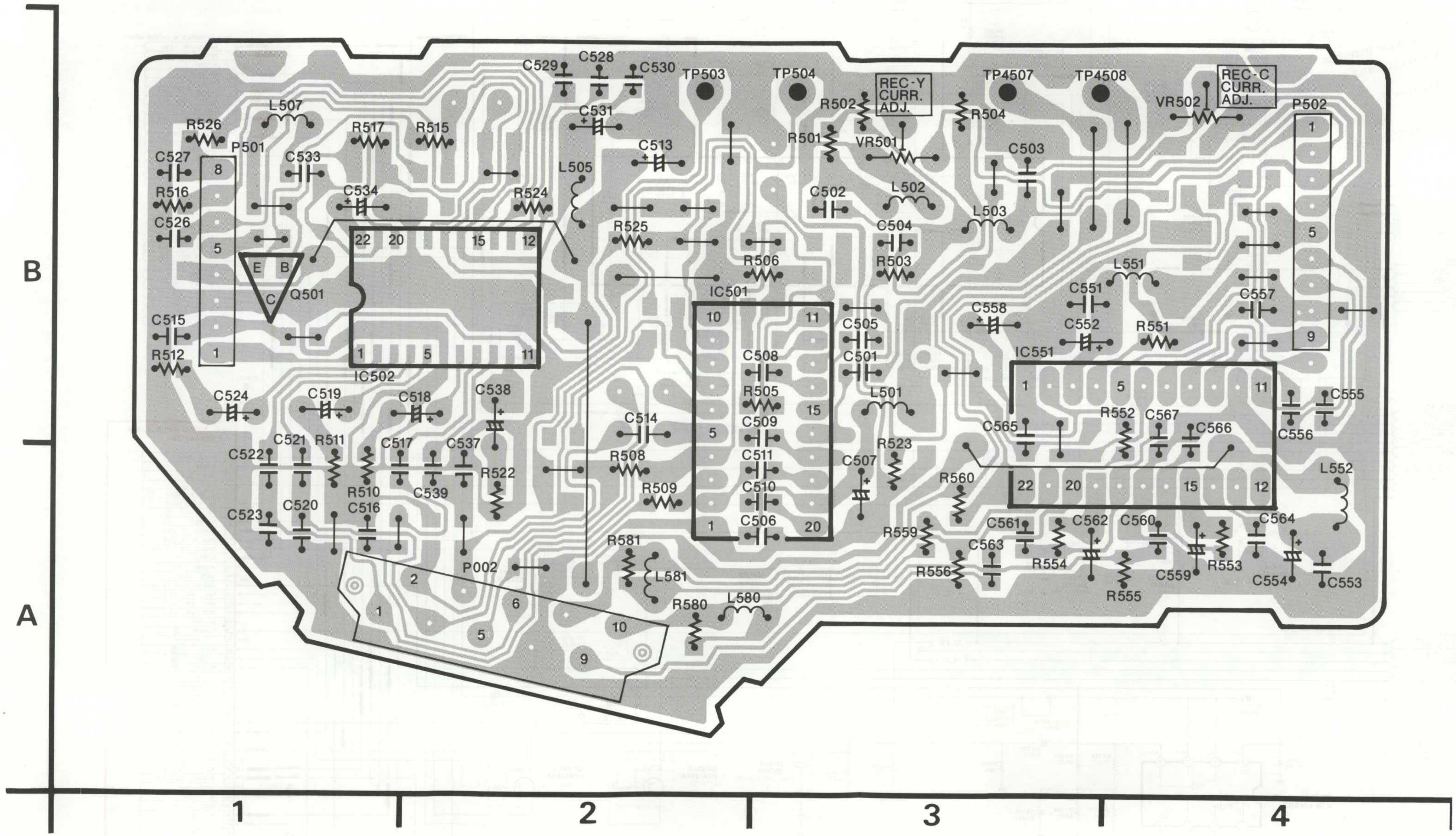
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION.

- LINE IN SIGNAL LEVEL… −10dB 1kHz
- MEASUREMENT MODE
  REC…BRACKETS ( )
  PLAY…WITHOUT BRACKETS

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Back Page:
HEAD AMP Section

3-22. HEAD AMP C.B.A. (VEP05113B)



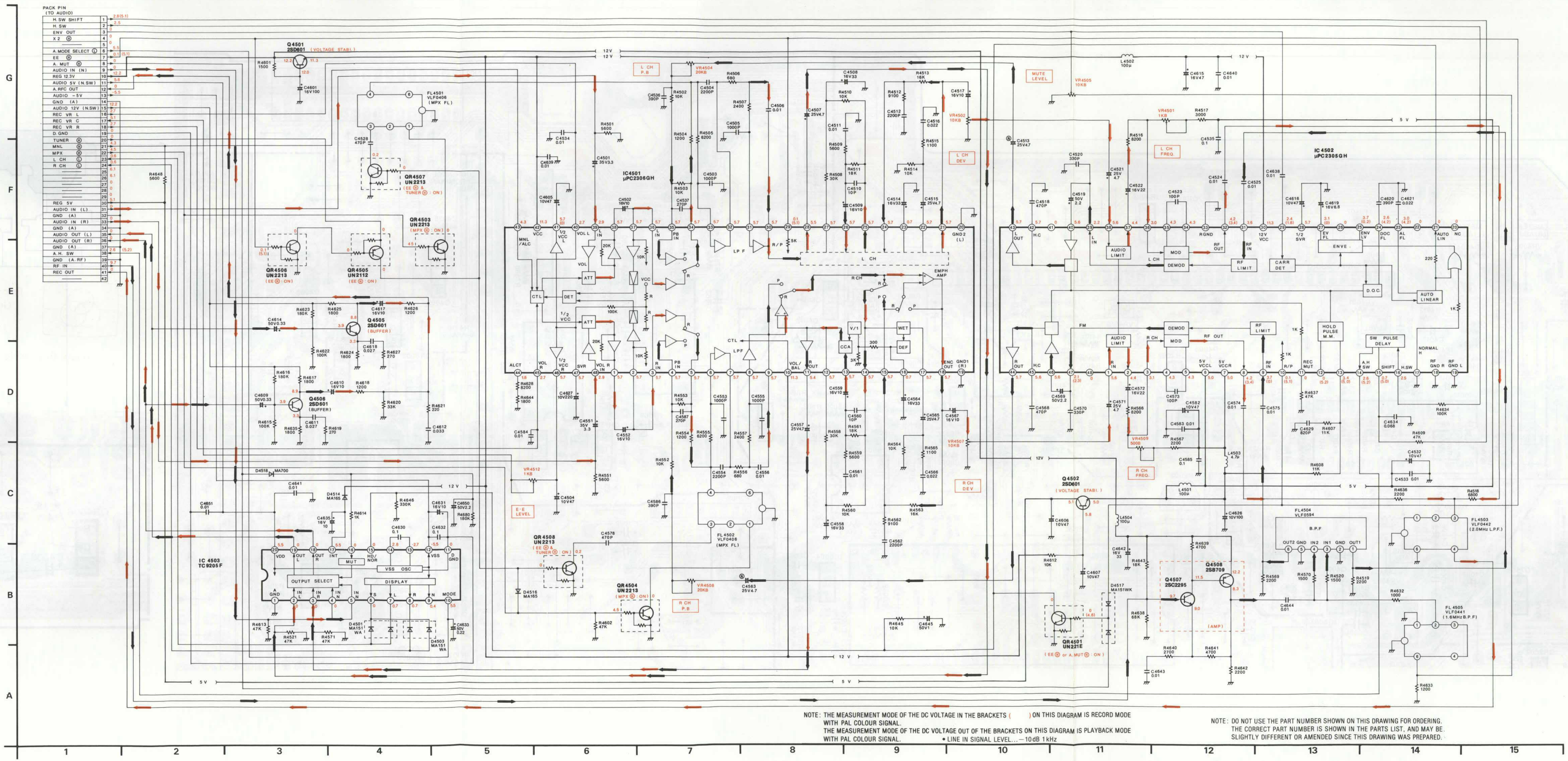
HEAD AMP C.B.A.	
Transistor	
Q501	B-1
Integrated Circuit	
IC501 IC502 IC551	B-2 B-1 B-3
Test Point	
TP503 TP504 TP4507 TP4508	B-2 B-2 B-3 B-3
Adjustment	
VR501 VR502	B-3 B-4
Connector	
P002 P501 P502	A-2 B-1 B-4

ADDRESS INFORMATION

3-25. Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.
• LINE IN SIGNAL LEVEL... −10dB 1kHz

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-24. AUDIO Section In Main C.B.A. (VEP03472D: NV-H75EO) (VEP03472C: NV-H75EV)

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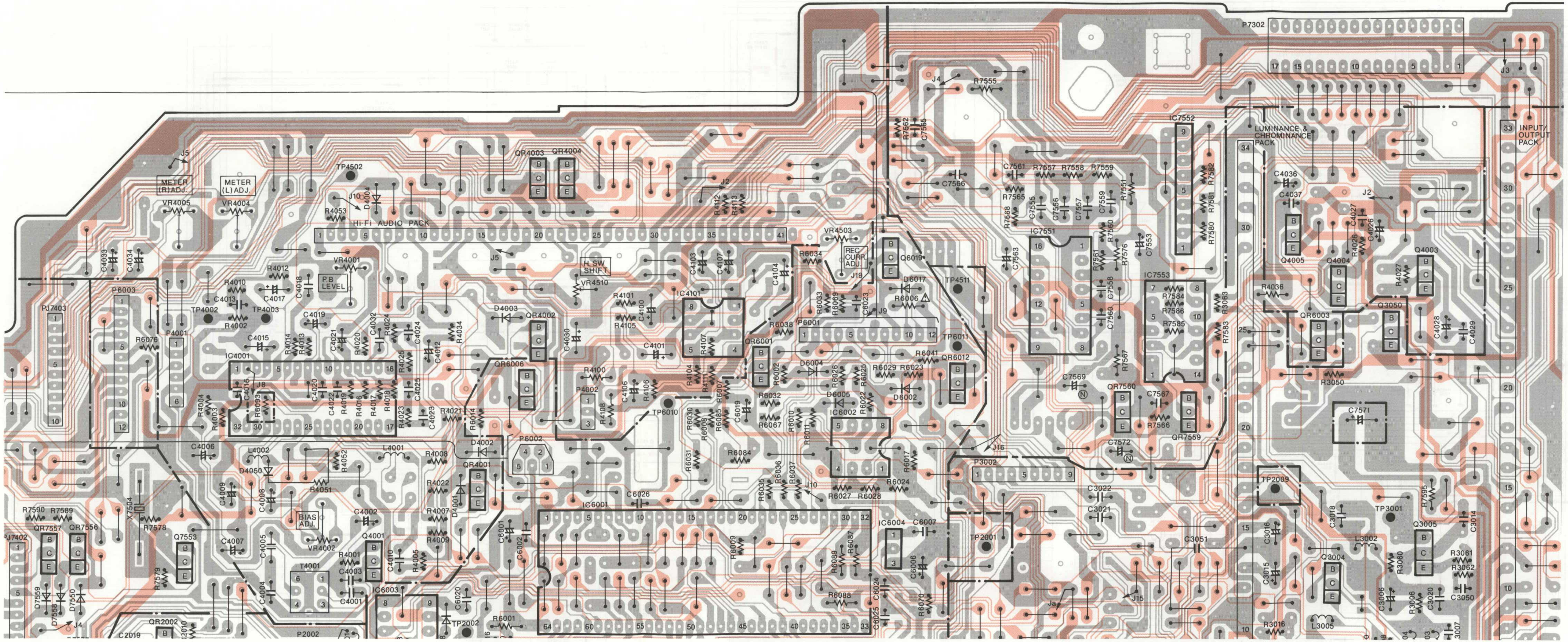
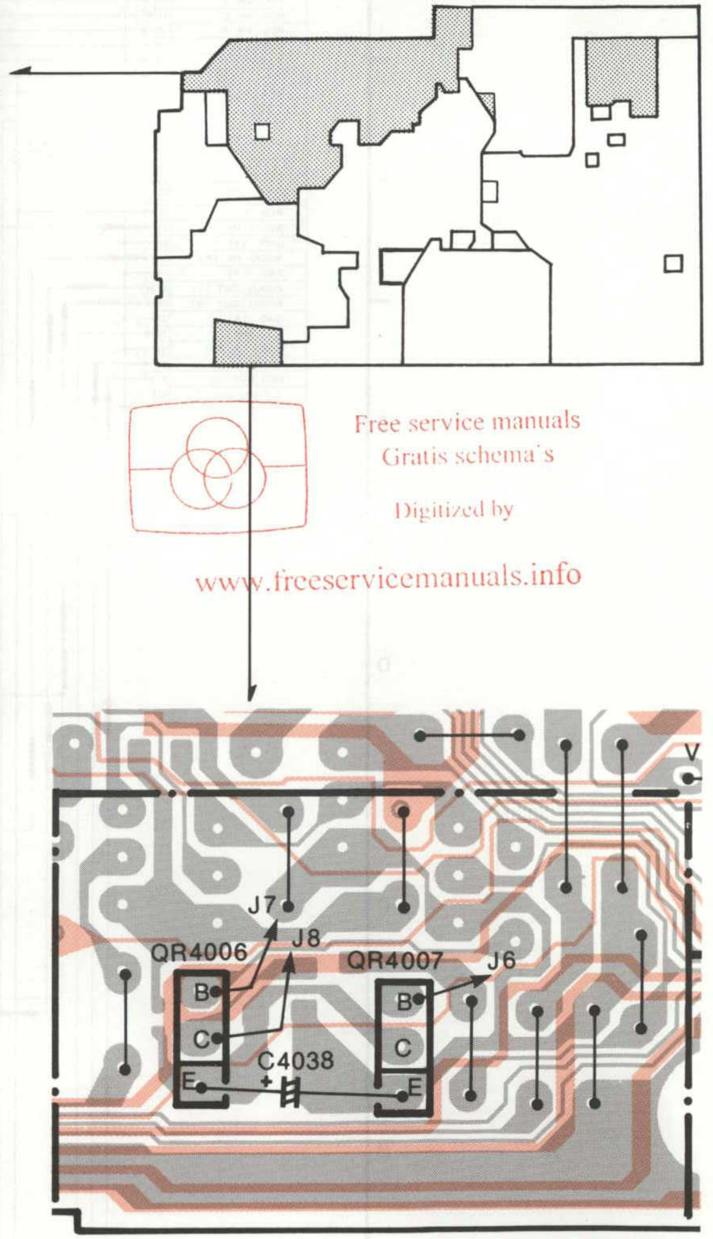
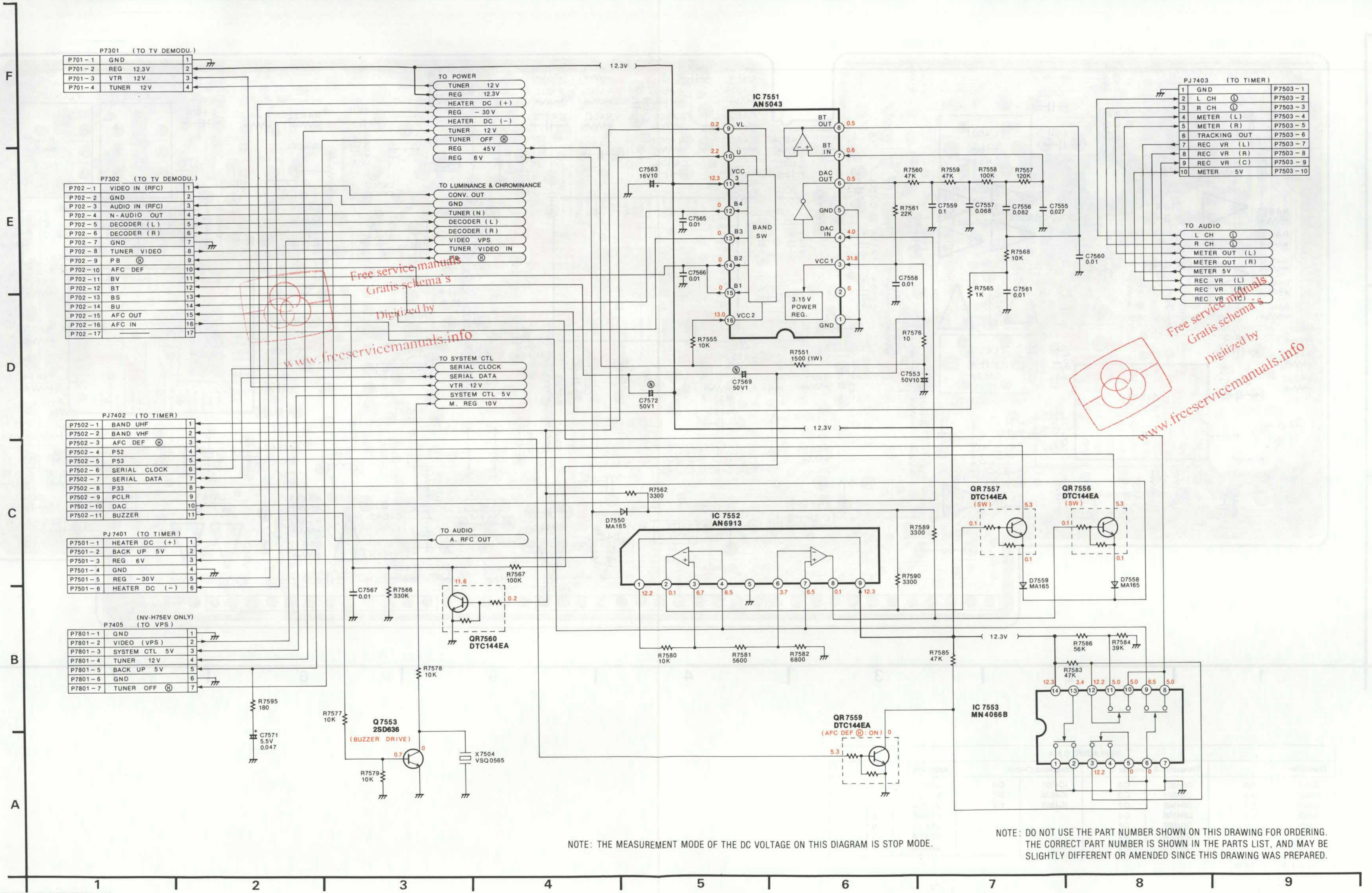




Free service manuals
Gratis schema's

Next Page:
Hi-Fi AUDIO Section

3-27. CH SELECT SCHEMATIC DIAGRAM

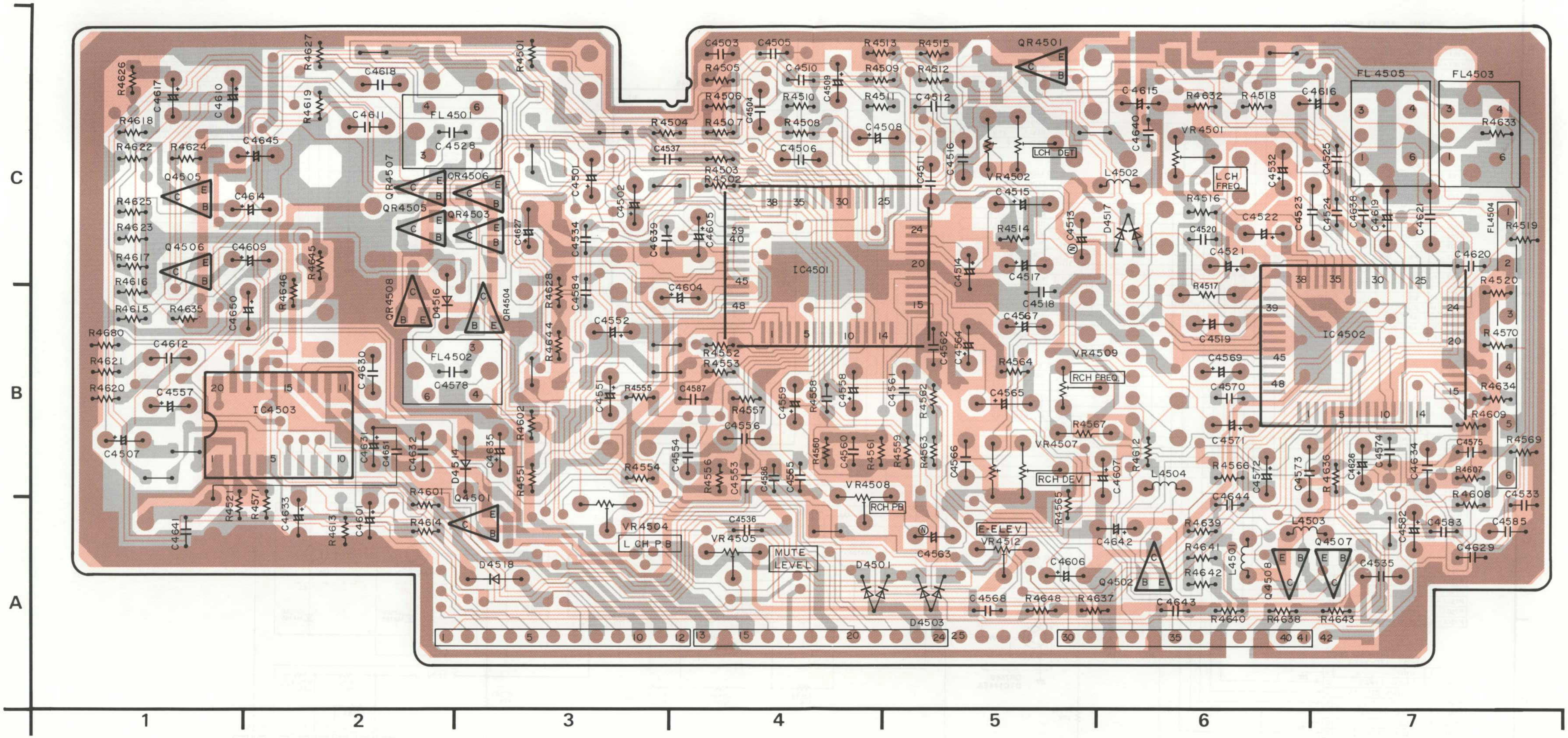


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Back Page:
H-Fi AUDIO Section

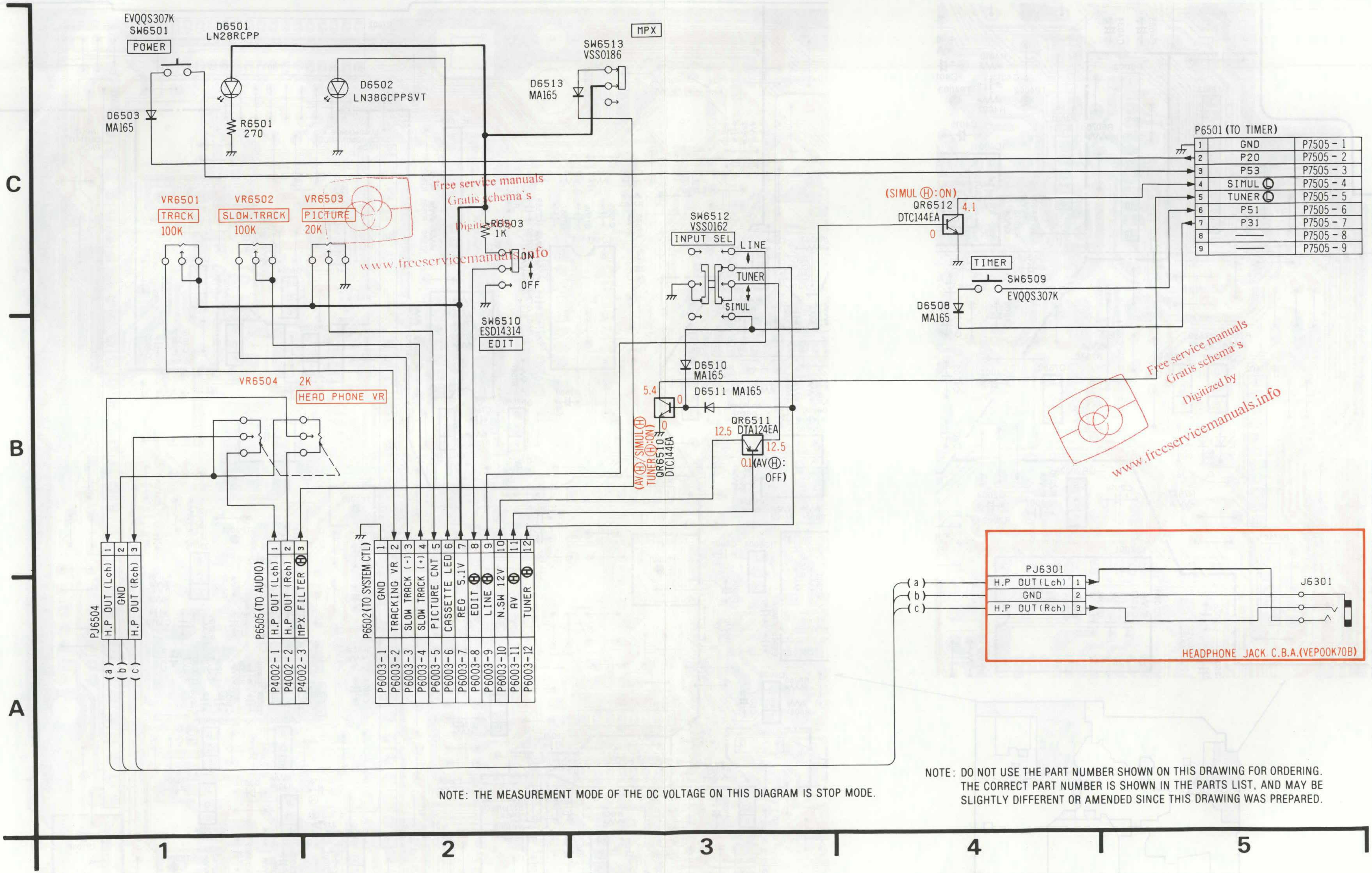
3-26. Hi-Fi AUDIO PACK C.B.A. (VEP04213B)



Hi-Fi AUDIO C.B.A.							
Transistor		**Transistor & Resistor**		**Integrated Circuit**		**Adjustment**	
Q4501	A-3	QR4501	C-5	IC4501	C-4	VR4501	C-6
Q4502	A-6	QR4503	C-3	IC4502	B-7	VR4502	C-5
Q4505	C-1	QR4505	C-2	IC4503	B-2	VR4504	A-3
Q4506	C-1	QR4506	C-2			VR4505	A-4
Q4507	A-1	QR4507	C-2			VR4507	B-5
Q4508	A-6	QR4508	B-2			VR4508	B-4
		QR4509	B-3			VR4512	A-5

ADDRESS INFORMATION

3-29. OPERATION SCHEMATIC DIAGRAM



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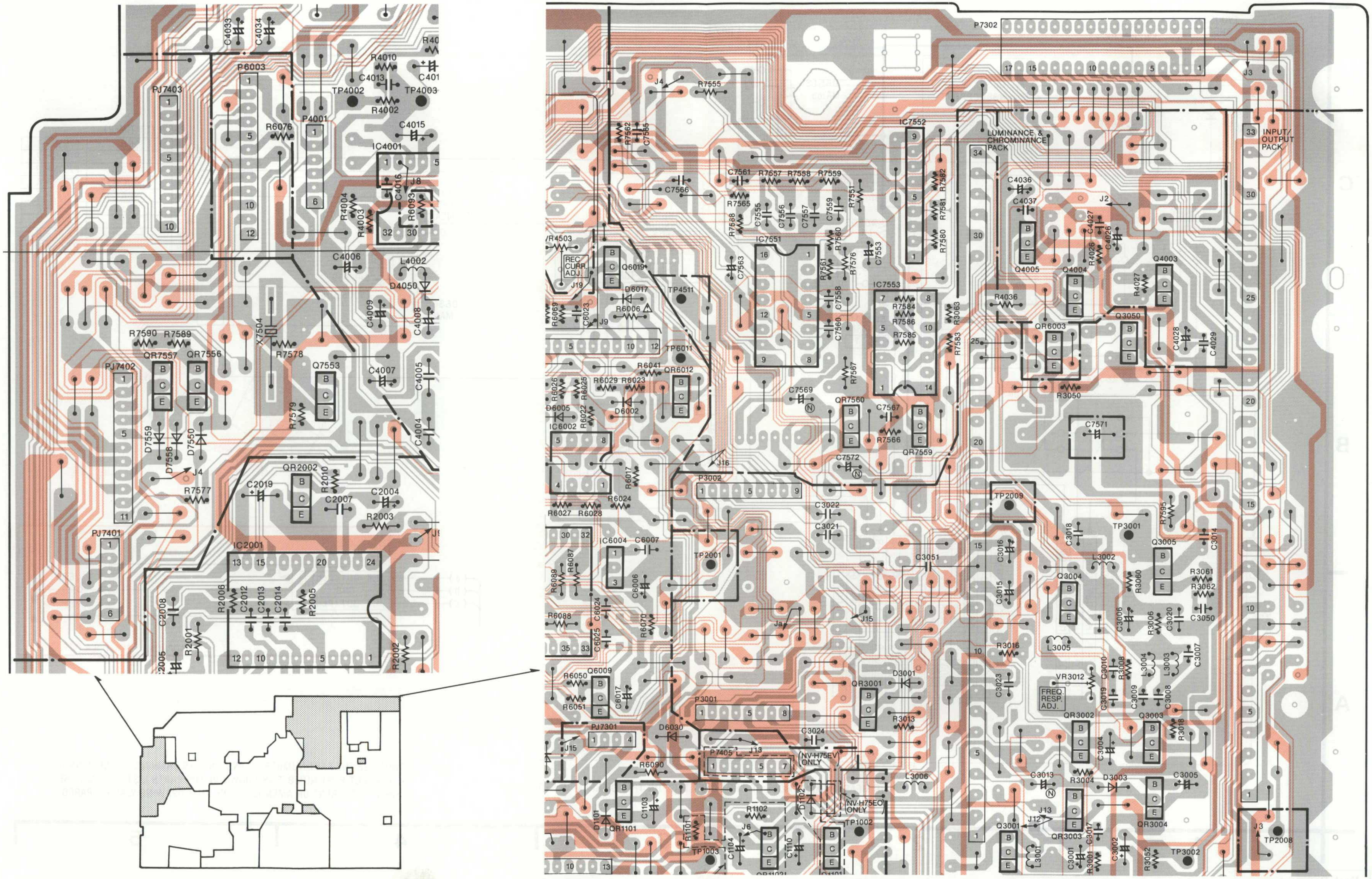
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

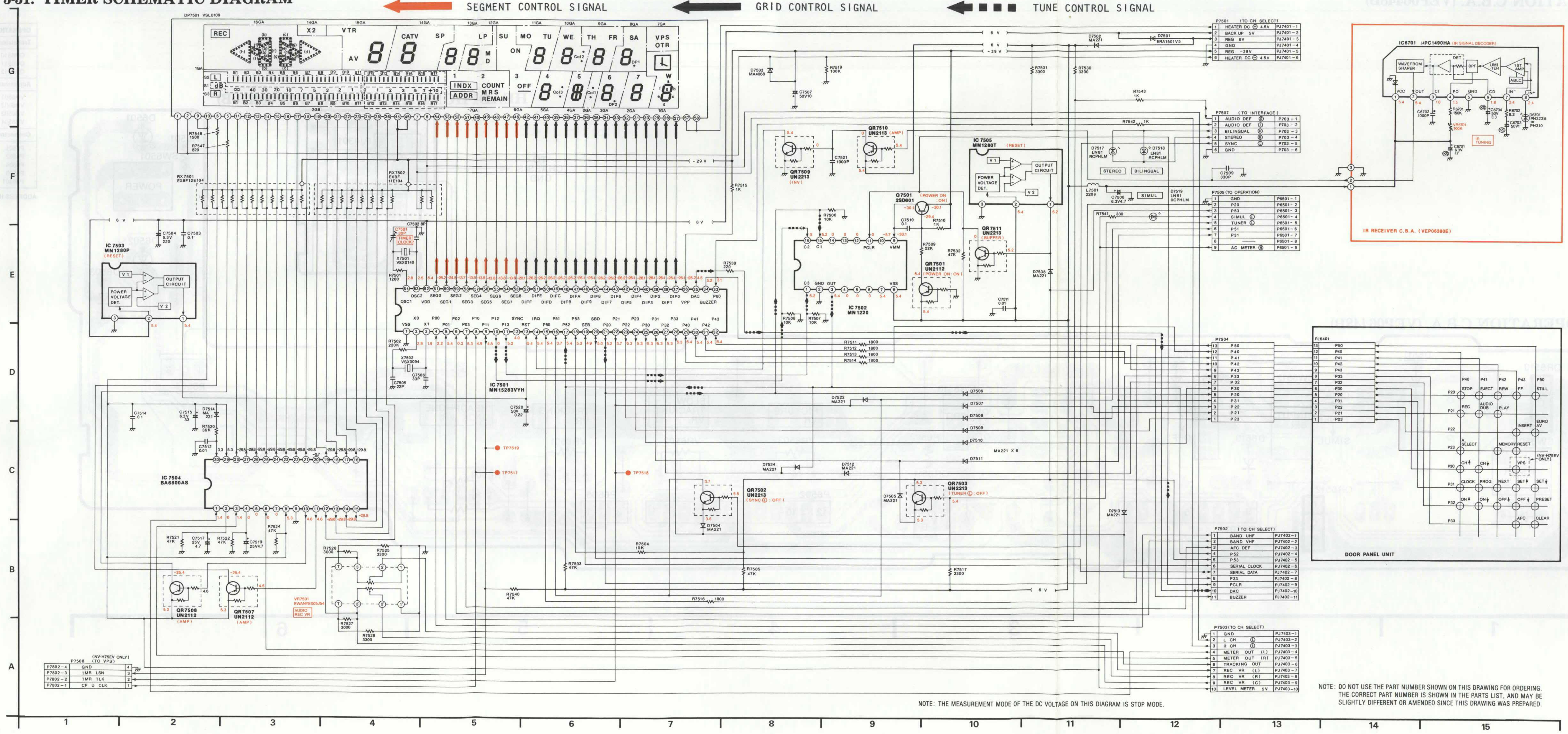
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Back Page:
CH SELECT Section

3-28. CH SELECT Section In Main C.B.A. (VEP03472D: NV-H75EO) (VEP03472C: NV-H75EV)



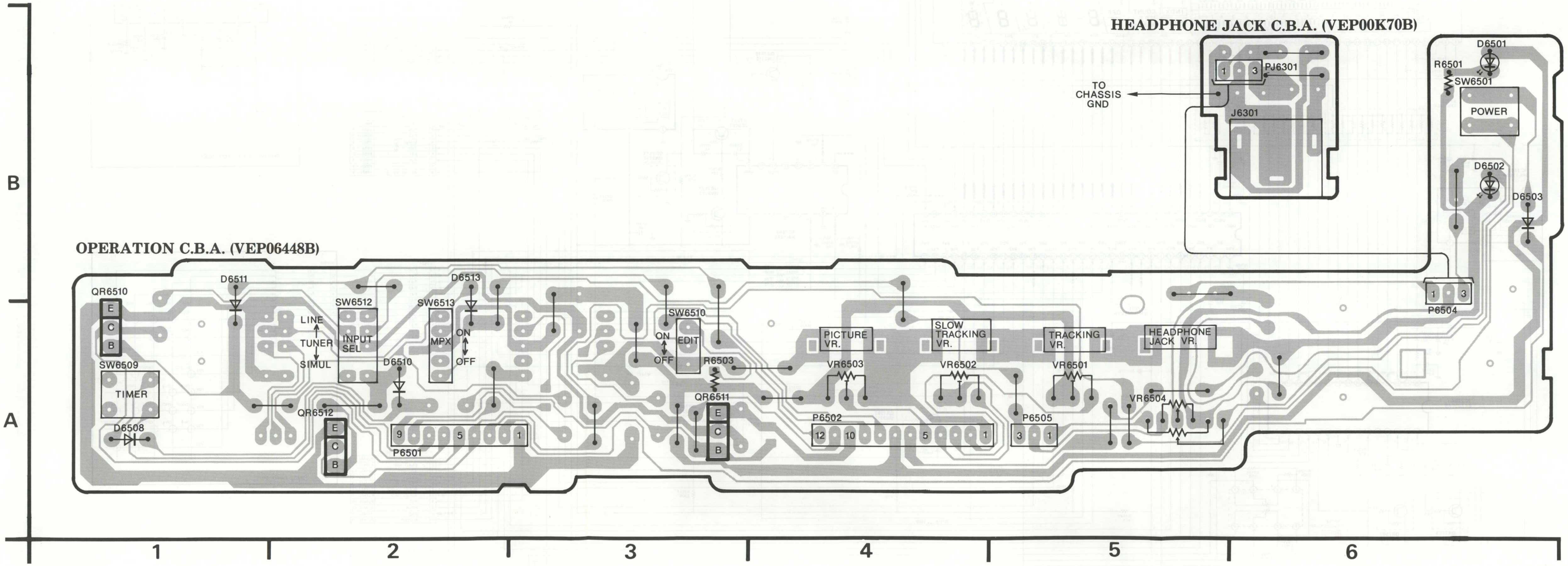
3-31. TIMER SCHEMATIC DIAGRAM



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-30. OPERATION C.B.A. (VEP06448B)



OPERATION C.B.A.	
Transistor & Resistor	
QR6510	B-1
QR6511	A-3
QR6512	A-2
Adjustment	
VR6501	A-5
VR6502	A-4
VR6503	A-4
VR6504	A-5
Connector	
P6501	A-2
P6502	A-4
P6504	A-6
P6505	A-5
PJ6301	B-6

ADDRESS INFORMATION

Next Page:
TIMER Section

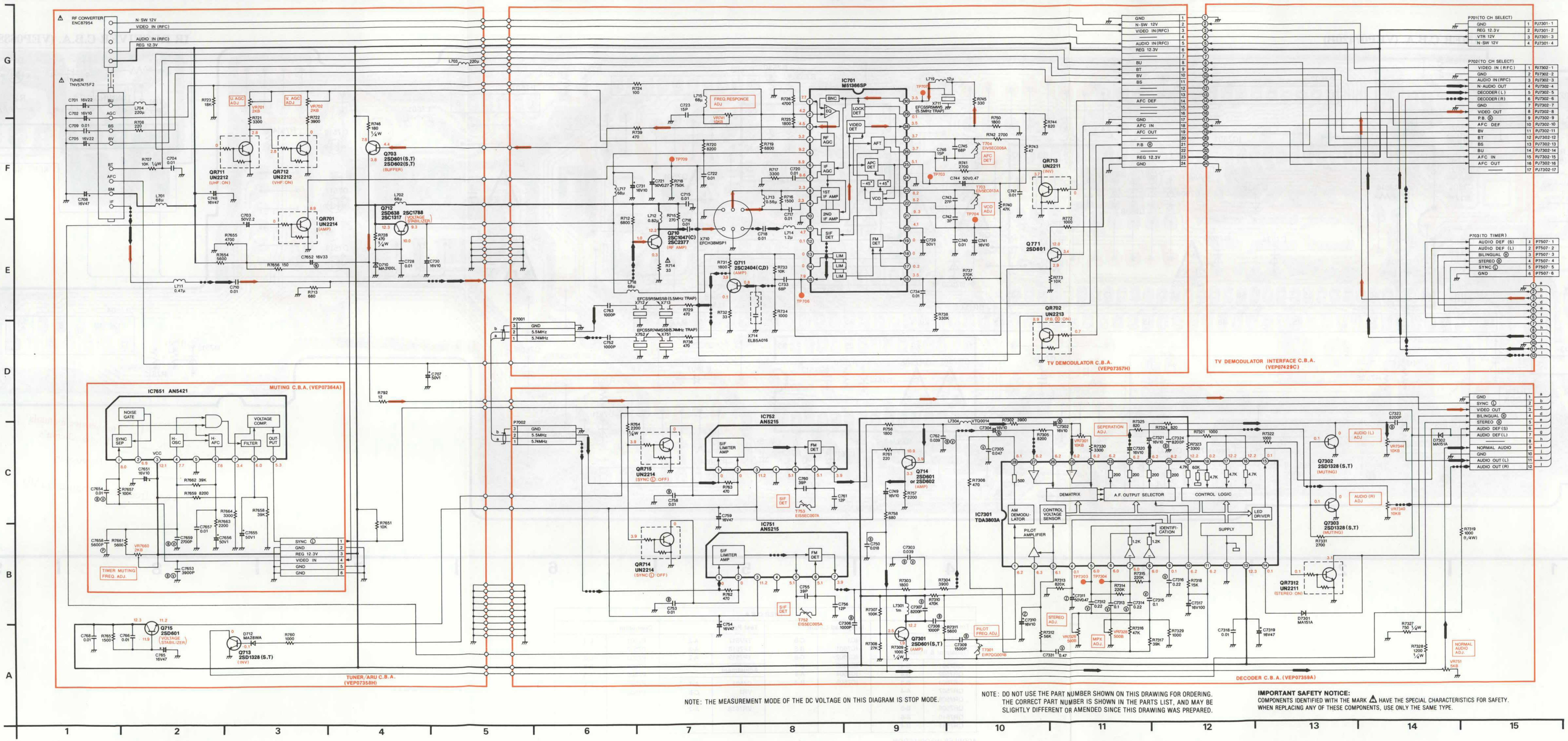
3/20/15

3-33. TV DEMODULATOR SCHEMATIC DIAGRAM

VIDEO SIGNAL PATH

AUDIO MAIN SIGNAL PATH

AUDIO SUB SIGNAL PATH

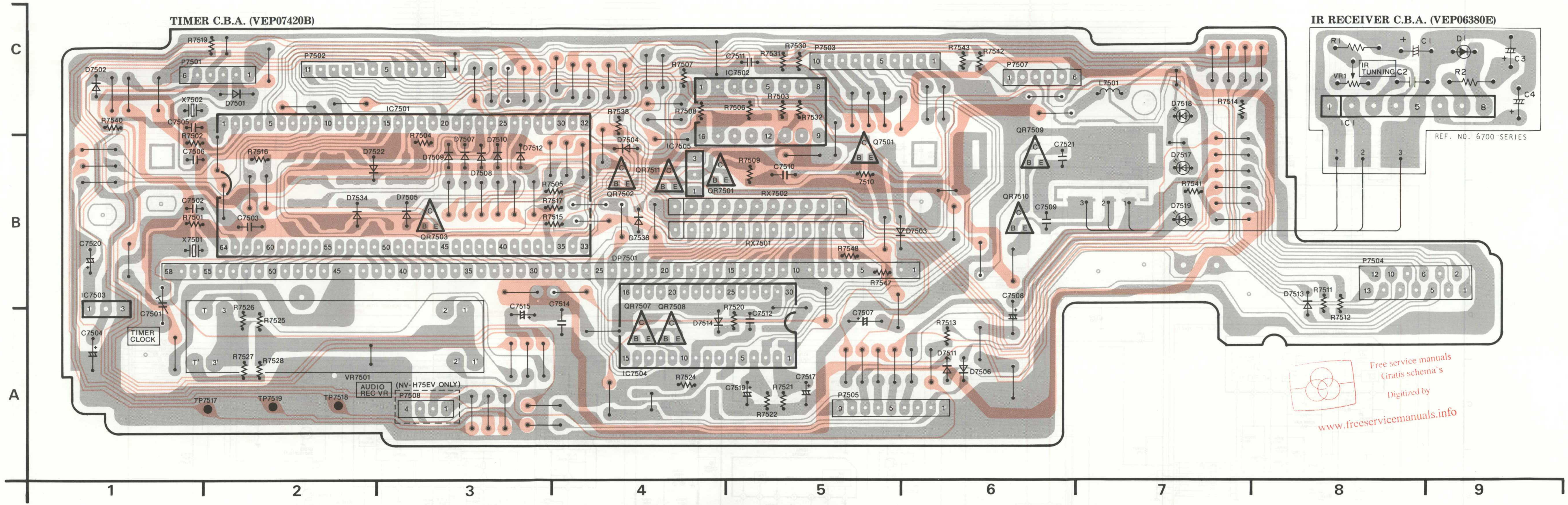


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

3-32. TIMER C.B.A. (VEP07420B)



TIMER C.B.A.							
Transistor		**Integrated Circuit**		**Test Point**		**Connector**	
Q7501	B-5	IC1	C-8	TP7517	A-2	P7501	C-1
Transistor & Resistor		IC7501	B-3	TP7518	A-2	P7502	C-2
QR7501	B-4	IC7502	C-5	TP7519	A-2	P7503	C-5
QR7502	B-4	IC7503	B-1	**Adjustment**		P7504	B-8
QR7503	B-3	IC7504	A-4	C7501	A-1	P7505	A-5
QR7507	A-4	IC7505	B-4	VR1	C-8	P7507	C-6
QR7508	A-4			VR7501	A-2	P7508	A-3
QR7509	B-6			VR7518	A-2		
QR7510	B-6						
QR7511	B-4						

ADDRESS INFORMATION

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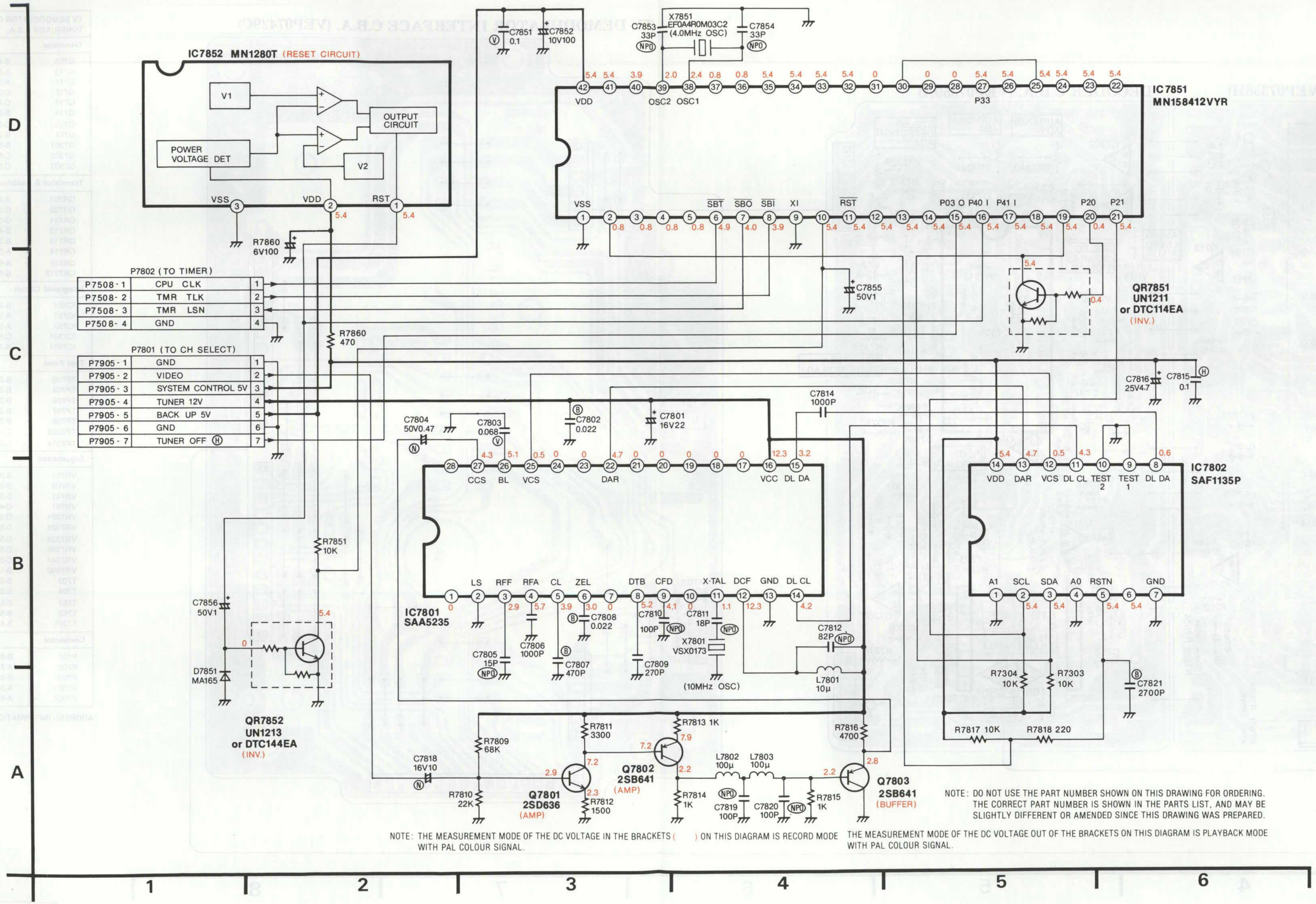
Gratis schema's

Next Page:
TV DEMODULATOR Section

3-35. VPS SCHEMATIC DIAGRAM (NV-H75EV)



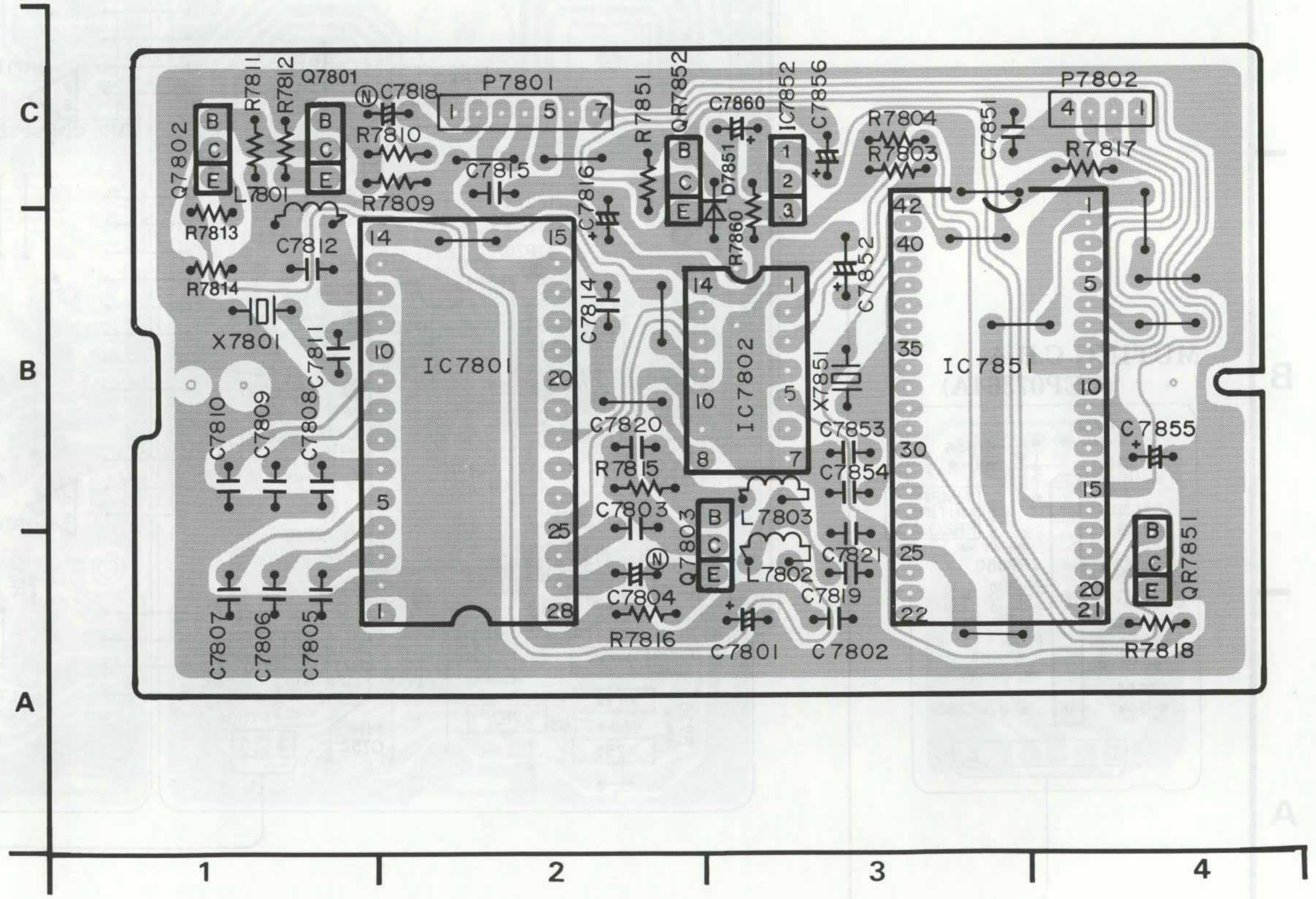
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

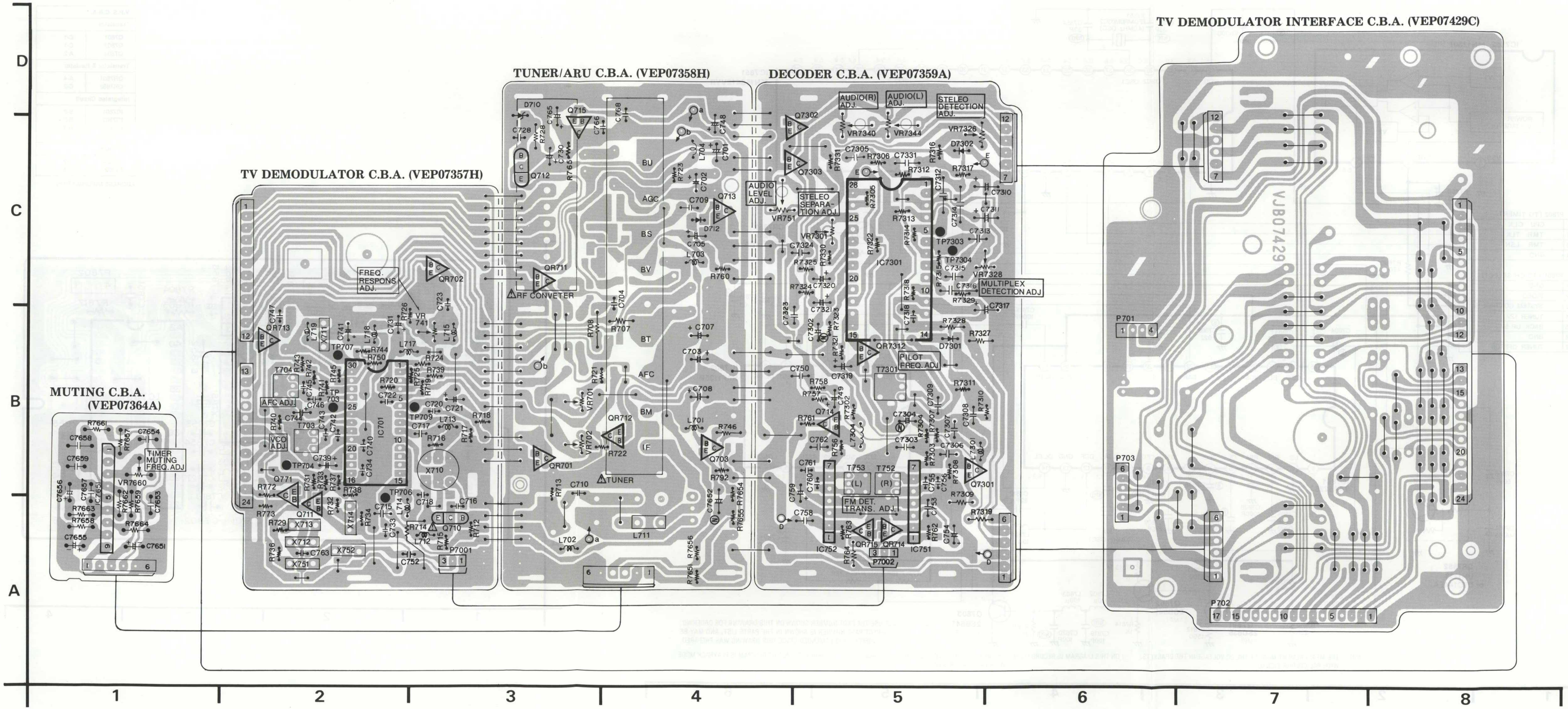
3-36. VPS C.B.A. (VEP07421A: NV-H75EV)

V.P.S. C.B.A.	
Transistor	
Q7801	C-1
Q7802	C-1
Q7803	A-2
Transistor & Resistor	
QR7851	A-4
QR7852	C-2
Integrated Circuit	
IC7801	B-2
IC7802	B-3
IC7851	B-3
IC7852	C-3
Connector	
P7801	C-2
P7802	C-4

ADDRESS INFORMATION



3-34. TV DEMODULATOR INTERFACE C.B.A. (VEP07429C), TV DEMODULATOR C.B.A. (VEP07357H) & TUNER/ARU C.B.A. (VEP07358H)

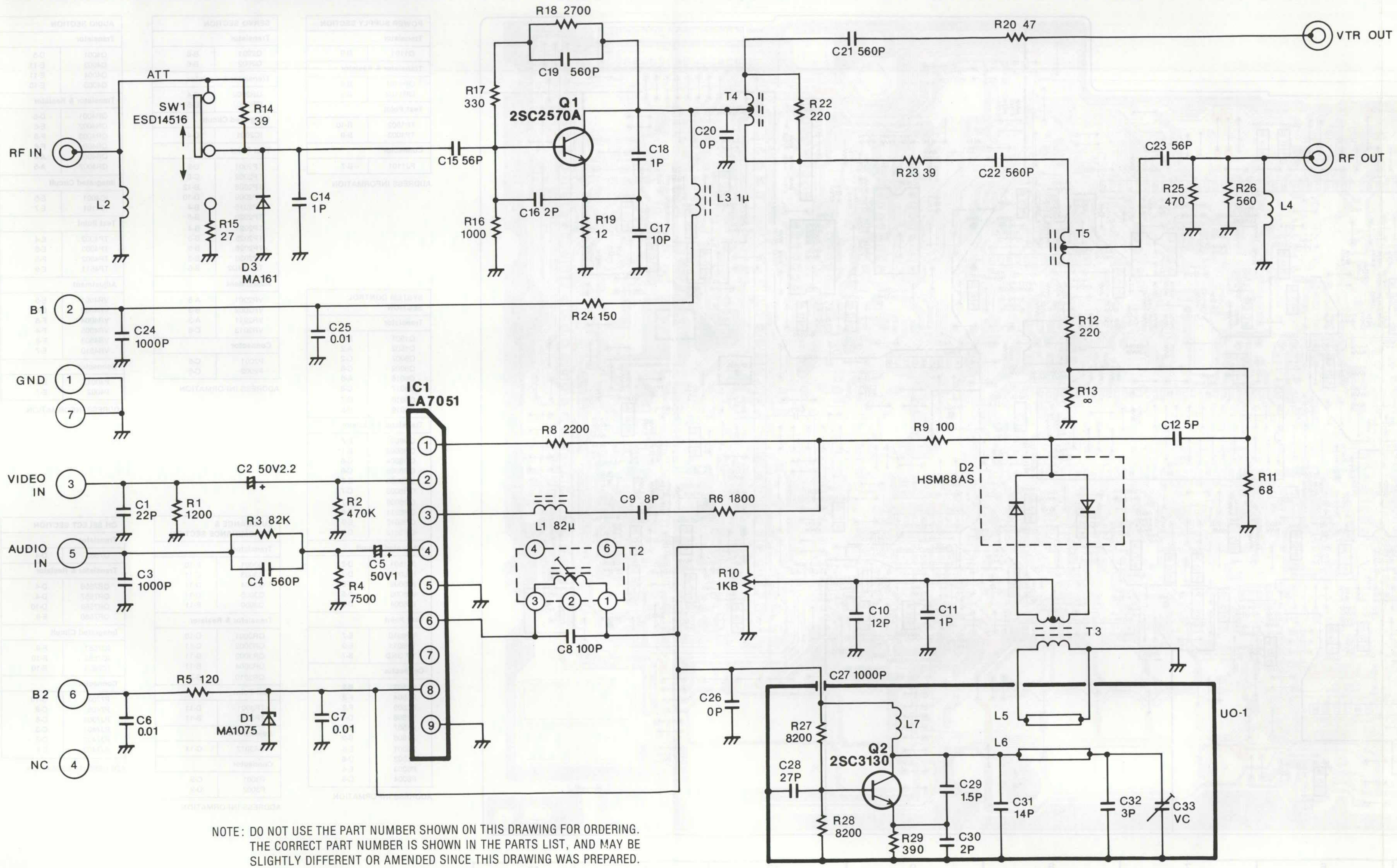


TV DEMODULATOR C.B.A. & TUNER/ARU C.B.A.	
Transistor	
Q703	B-4
Q710	A-3
Q711	A-2
Q712	C-3
Q713	C-4
Q714	B-5
Q715	C-3
Q771	B-2
Q7301	B-5
Q7302	C-5
Q7303	C-5
Transistor & Resistor	
QR701	B-3
QR702	C-3
QR711	C-3
QR712	B-4
QR713	B-2
QR714	A-5
QR715	A-5
QR7312	B-5
Integrated Circuit	
IC701	B-2
IC751	A-5
IC752	A-5
IC7301	C-5
IC7651	B-1
Test Point	
TP703	B-2
TP704	B-2
TP706	B-2
TP707	B-2
TP709	B-3
TP7303	C-5
TP7304	C-5
Adjustment	
VR701	B-3
VR702	B-3
VR741	B-3
VR751	C-4
VR7301	C-5
VR7326	C-5
VR7328	C-5
VR7340	C-5
VR7344	C-5
VR7660	B-1
T703	B-2
T704	B-2
T752	B-5
T753	B-5
T7301	B-5
Connector	
P701	B-6
P702	A-7
P703	B-6
P7001	A-3
P7002	A-5

ADDRESS INFORMATION

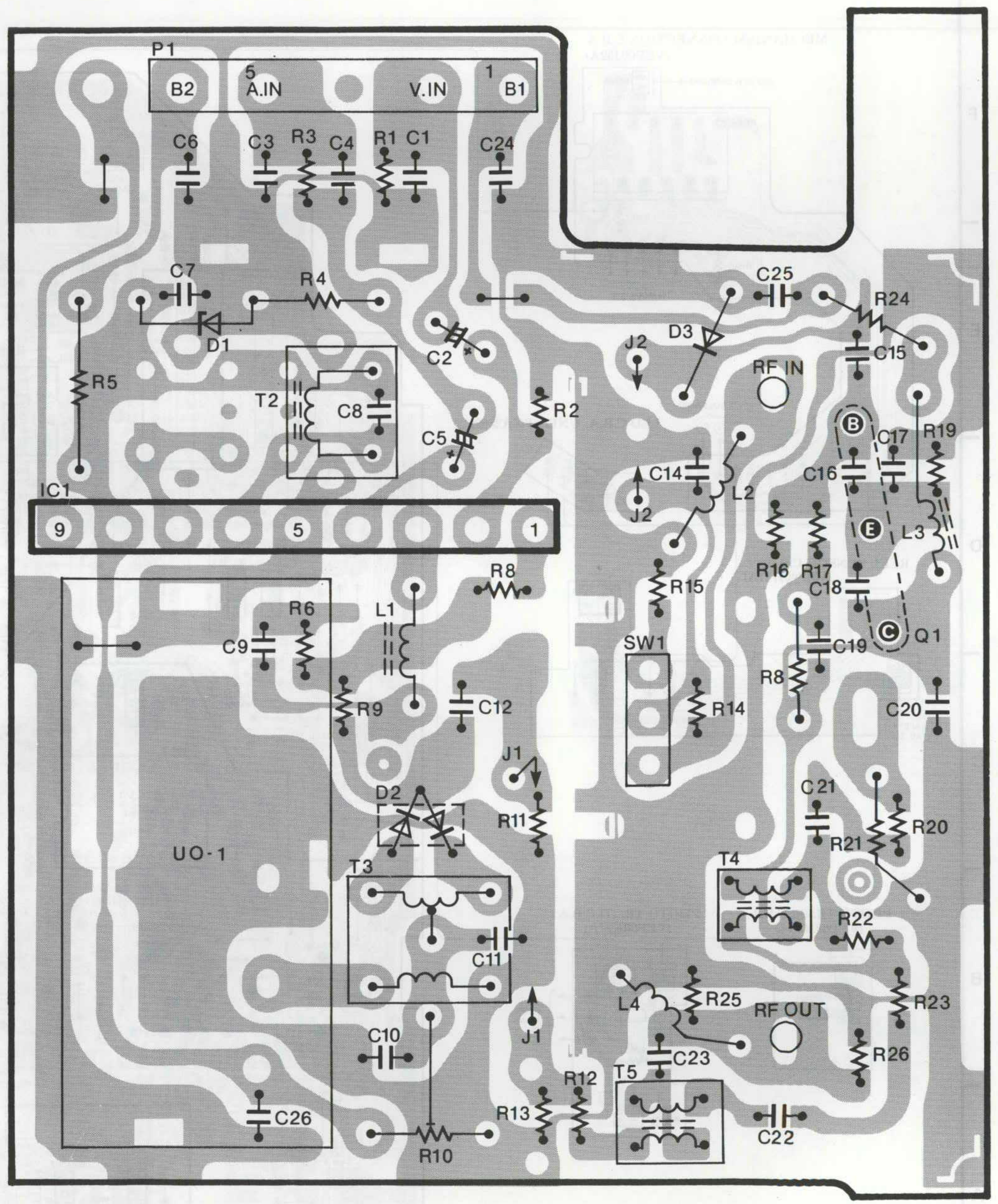
Next Page:
VPS Section

3-38. RF CONVERTER SCHEMATIC DIAGRAM



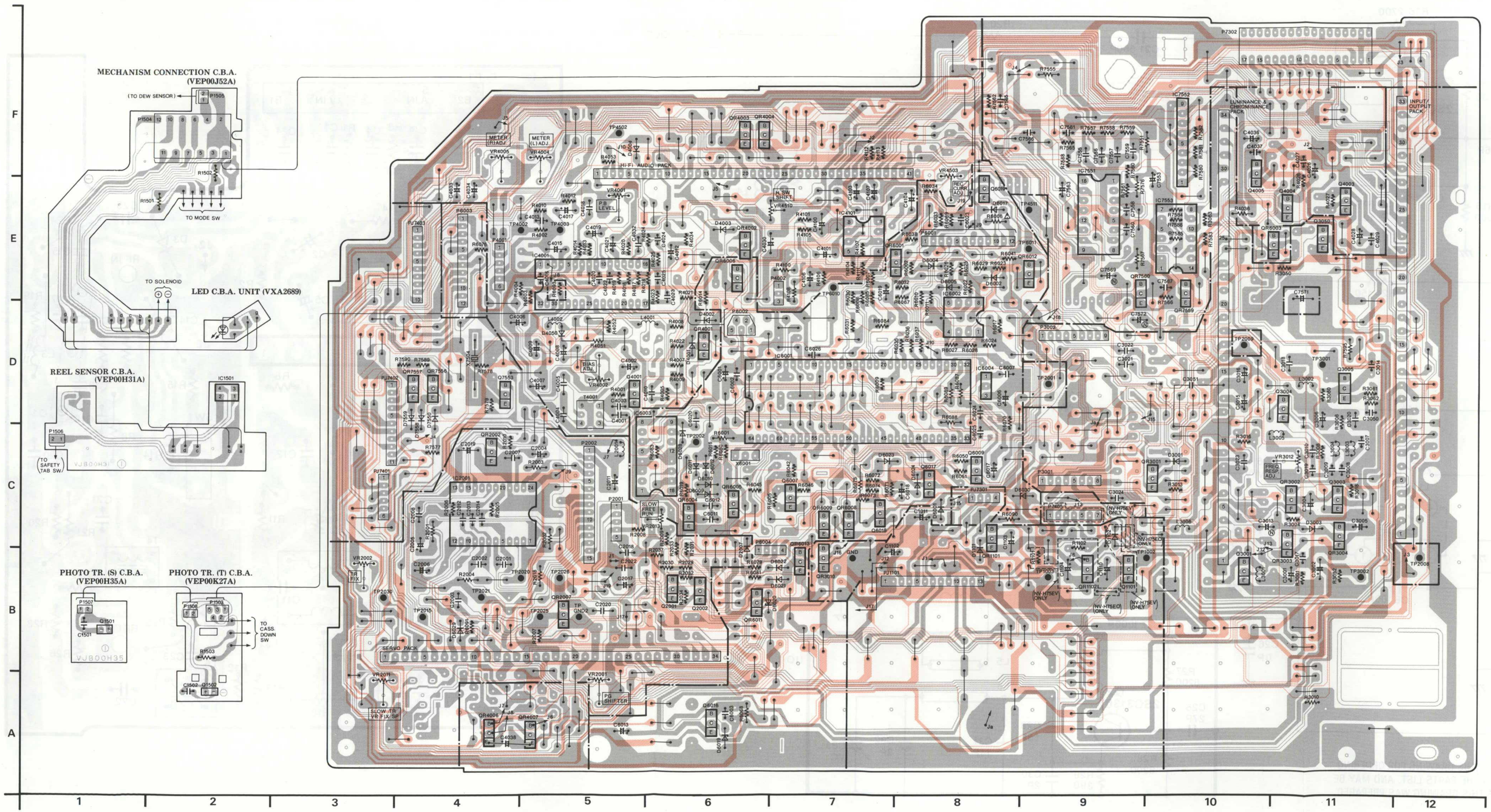
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-39. RF CONVERTER C.B.A. (ENC87954)



3/20/15

3-37. MAIN C.B.A. (VEP03472D: NV-H75EO) (VEP03472C: NV-H75EV)



MAIN C.B.A. ADDRESS INFORMATION

POWER SUPPLY SECTION	
Transistor	
Q1101	B-9
Transistor & Resistor	
QR1101	B-8
QR1102	B-9
Test Point	
TP1002	B-10
TP1003	B-9
Connector	
PJ1101	B-7

ADDRESS INFORMATION

SYSTEM CONTROL SECTION	
Transistor	
Q1501	B-1
Q1502	A-2
Q6007	C-2
Q6009	C-8
Q6016	A-6
Q6017	C-8
Q6018	C-7
Q6019	F-8
Transistor & Resistor	
QR6001	E-7
QR6003	E-11
QR6004	C-6
QR6005	C-6
QR6006	E-6
QR6008	C-7
QR6009	C-7
QR6011	B-6
QR6012	E-9
QR6013	C-7
Integrated Circuit	
IC1501	D-2
IC6001	D-7
IC6002	E-8
IC6003	D-5
IC6004	D-8
Test Point	
TP6010	E-7
TP6011	E-9
TP GND	B-7
Connector	
P1503	B-2
P1504	F-2
P1505	F-2
P1506	C-1
P1507	B-1
P1508	B-2
P6001	E-8
P6002	D-6
P6003	E-4
P6004	C-6

ADDRESS INFORMATION

SERVO SECTION	
Transistor	
Q2001	B-6
Q2002	B-6
Transistor & Resistor	
QR2002	C-4
QR2007	B-5
Integrated Circuit	
IC2001	C-4
Test Point	
TP2001	D-9
TP2002	C-6
TP2008	B-12
TP2009	D-10
TP2015	B-4
TP2020	B-5
TP2021	B-4
TP2025	B-5
TP2026	B-5
TP2030	B-3
TP GND2	B-5
Adjustment	
VR2001	A-5
VR2002	B-3
VR2011	A-3
VR2013	C-6
Connector	
P2001	C-5
P2002	C-5

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE SECTION	
Transistor	
Q3001	B-10
Q3003	C-11
Q3004	D-11
Q3005	D-11
Q3050	E-11
Transistor & Resistor	
QR3001	C-10
QR3002	C-11
QR3003	B-11
QR3004	B-11
QR3010	B-7
Test Point	
TP3001	D-11
TP3002	B-11
Adjustment	
VR3012	C-11
Connector	
P3001	C-9
P3002	D-9

ADDRESS INFORMATION

AUDIO SECTION	
Transistor	
Q4001	D-5
Q4003	E-11
Q4004	E-11
Q4005	E-10
Transistor & Resistor	
QR4001	D-6
QR4002	E-6
QR4003	F-6
QR4004	F-6
QR4006	A-4
QR4007	A-5
Integrated Circuit	
IC4001	E-5
IC4101	E-7
Test Point	
TP4002	E-4
TP4003	E-5
TP4502	F-5
TP4511	E-9
Adjustment	
VR4001	E-5
VR4002	D-5
VR4004	F-5
VR4005	F-4
VR4503	F-8
VR4510	E-7
Connector	
P4001	E-4
P4002	E-7

ADDRESS INFORMATION

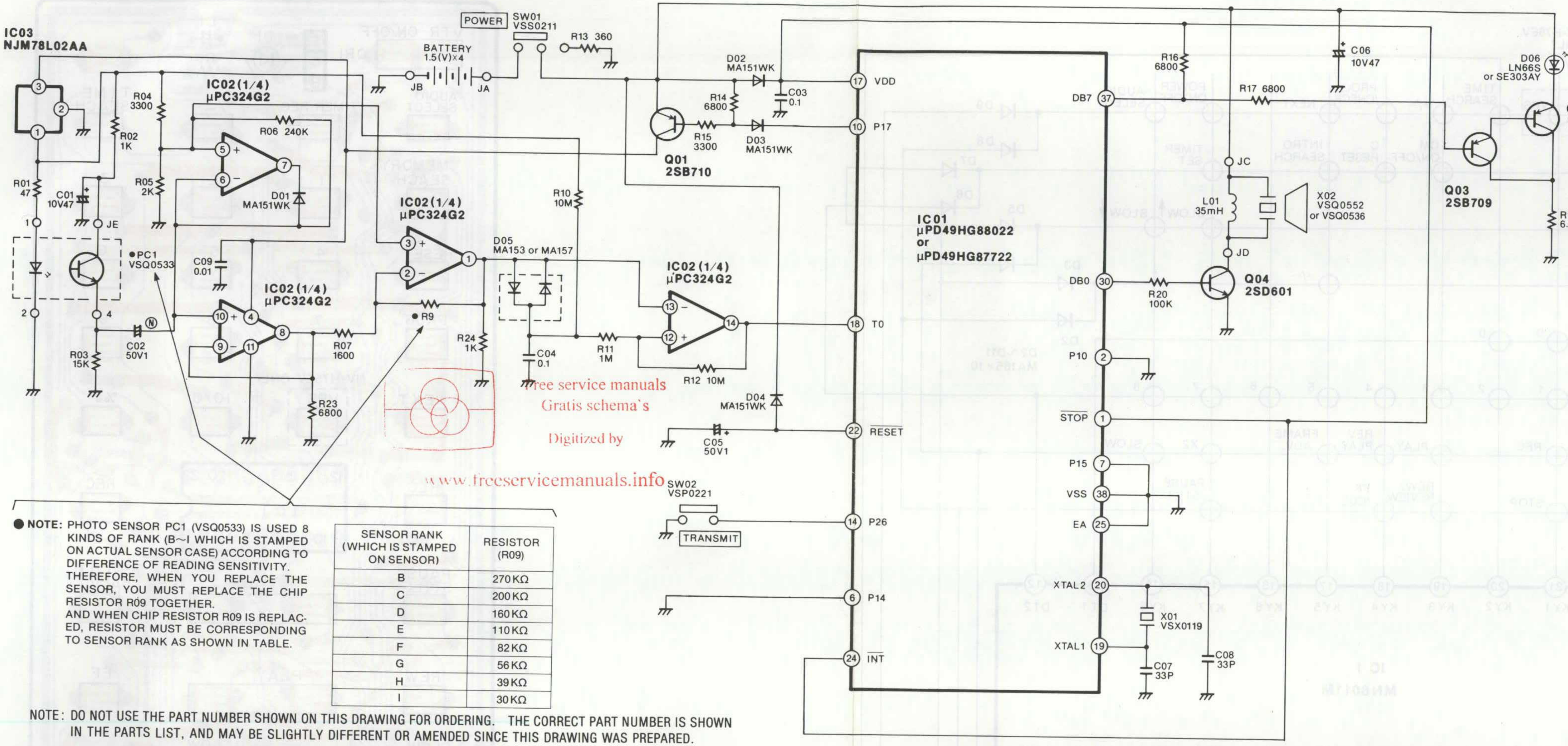
CH SELECT SECTION	
Transistor	
Q7553	D-4
Transistor & Resistor	
QR7556	D-4
QR7557	D-4
QR7559	D-10
QR7560	E-9
Integrated Circuit	
IC7551	F-9
IC7552	F-10
IC7553	E-10
Connector	
P7302	G-10
P7405	C-9
PJ7301	C-8
PJ7401	C-3
PJ7402	D-3
PJ7403	E-4

ADDRESS INFORMATION

Next Page:
RF CONVERTER Section

3/20/15

3-42. DIGITAL SCANNER SCHEMATIC DIAGRAM
— UNIT NO. : VEQ0549 —



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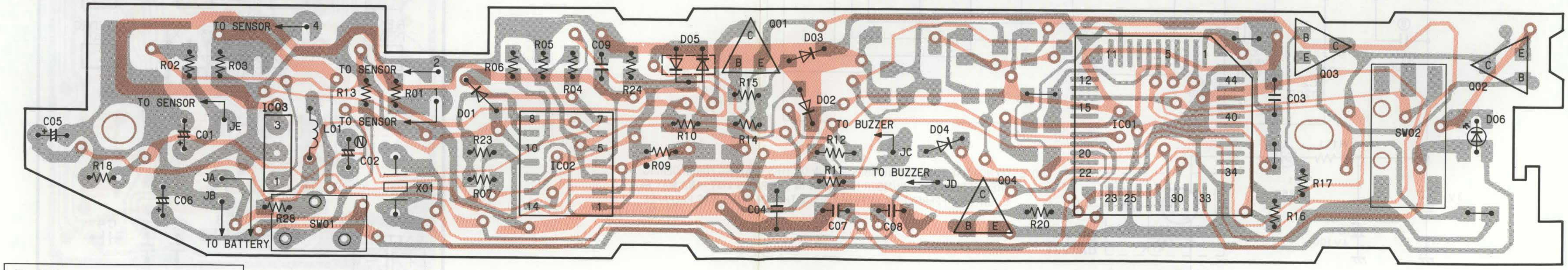
Gratis schema's

● **NOTE:** PHOTO SENSOR PC1 (VSQ0533) IS USED 8 KINDS OF RANK (B~I WHICH IS STAMPED ON ACTUAL SENSOR CASE) ACCORDING TO DIFFERENCE OF READING SENSITIVITY. THEREFORE, WHEN YOU REPLACE THE SENSOR, YOU MUST REPLACE THE CHIP RESISTOR R09 TOGETHER.
AND WHEN CHIP RESISTOR R09 IS REPLACED, RESISTOR MUST BE CORRESPONDING TO SENSOR RANK AS SHOWN IN TABLE.

SENSOR RANK (WHICH IS STAMPED ON SENSOR)	RESISTOR (R09)
B	270KΩ
C	200KΩ
D	160KΩ
E	110KΩ
F	82KΩ
G	56KΩ
H	39KΩ
I	30KΩ

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

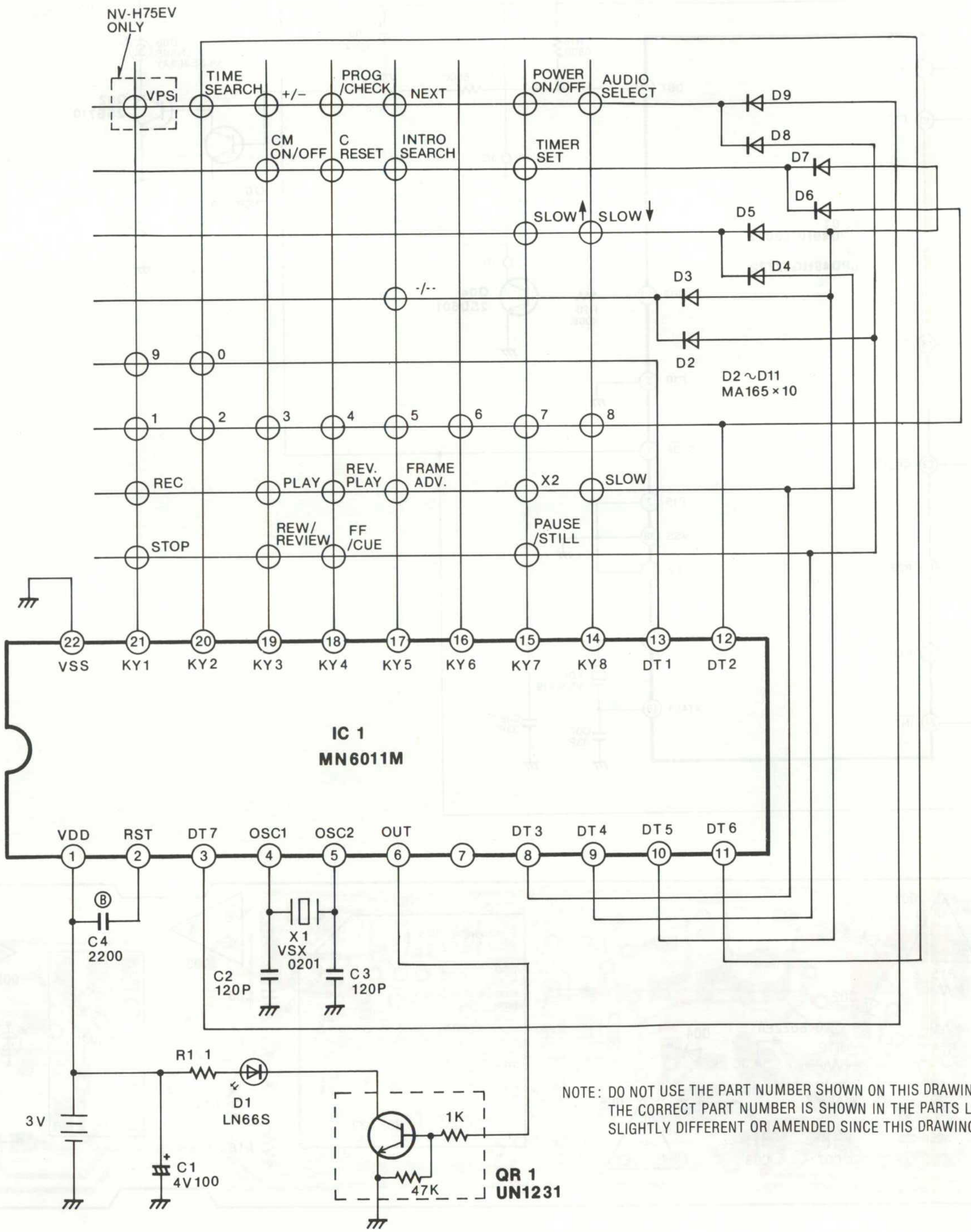
3-43. DIGITAL SCANNER C.B.A. (VEP66019D)



Back Page:
REMOTE CONTROLLER Section

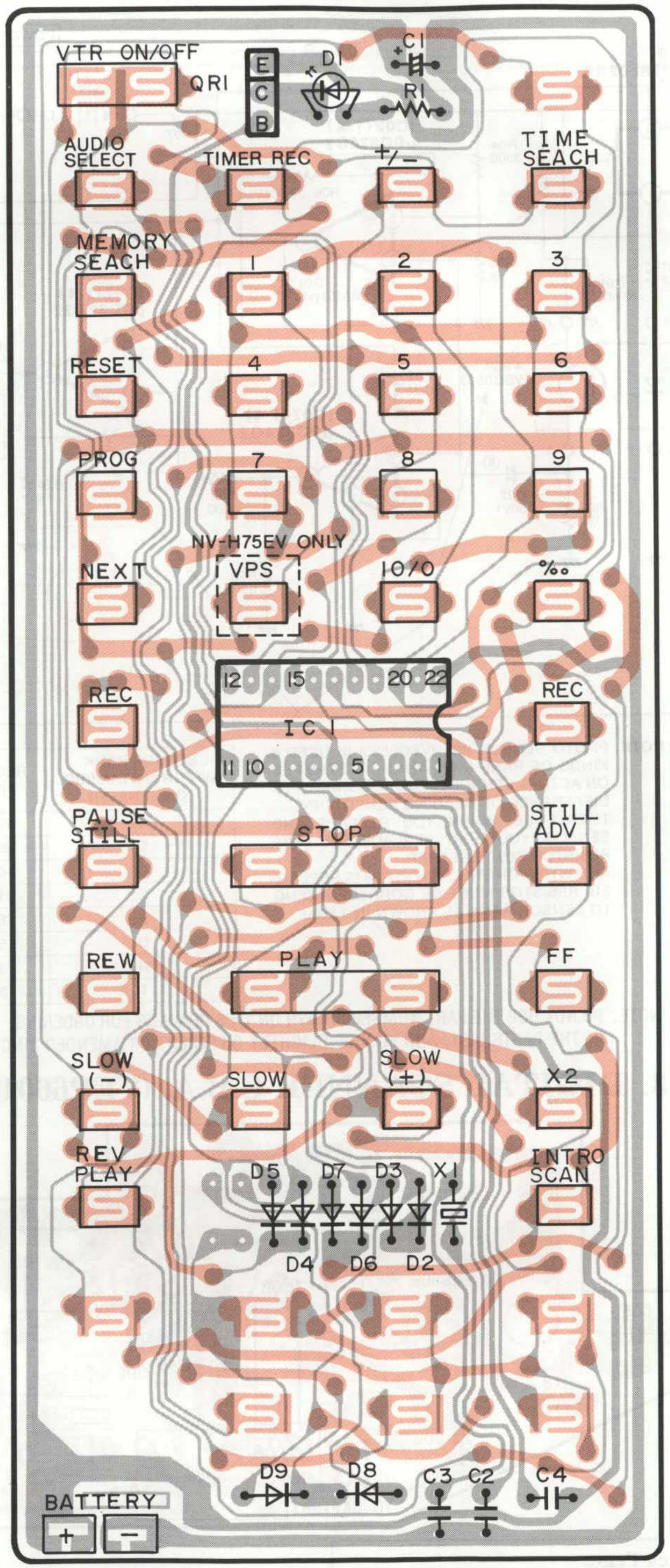
3-40. PROGRAMMABLE REMOTE CONTROLLER SCHEMATIC DIAGRAM

UNIT NO.: VEQ0616 (NV-H75EO), VEQ0615 (NV-H75EV)



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

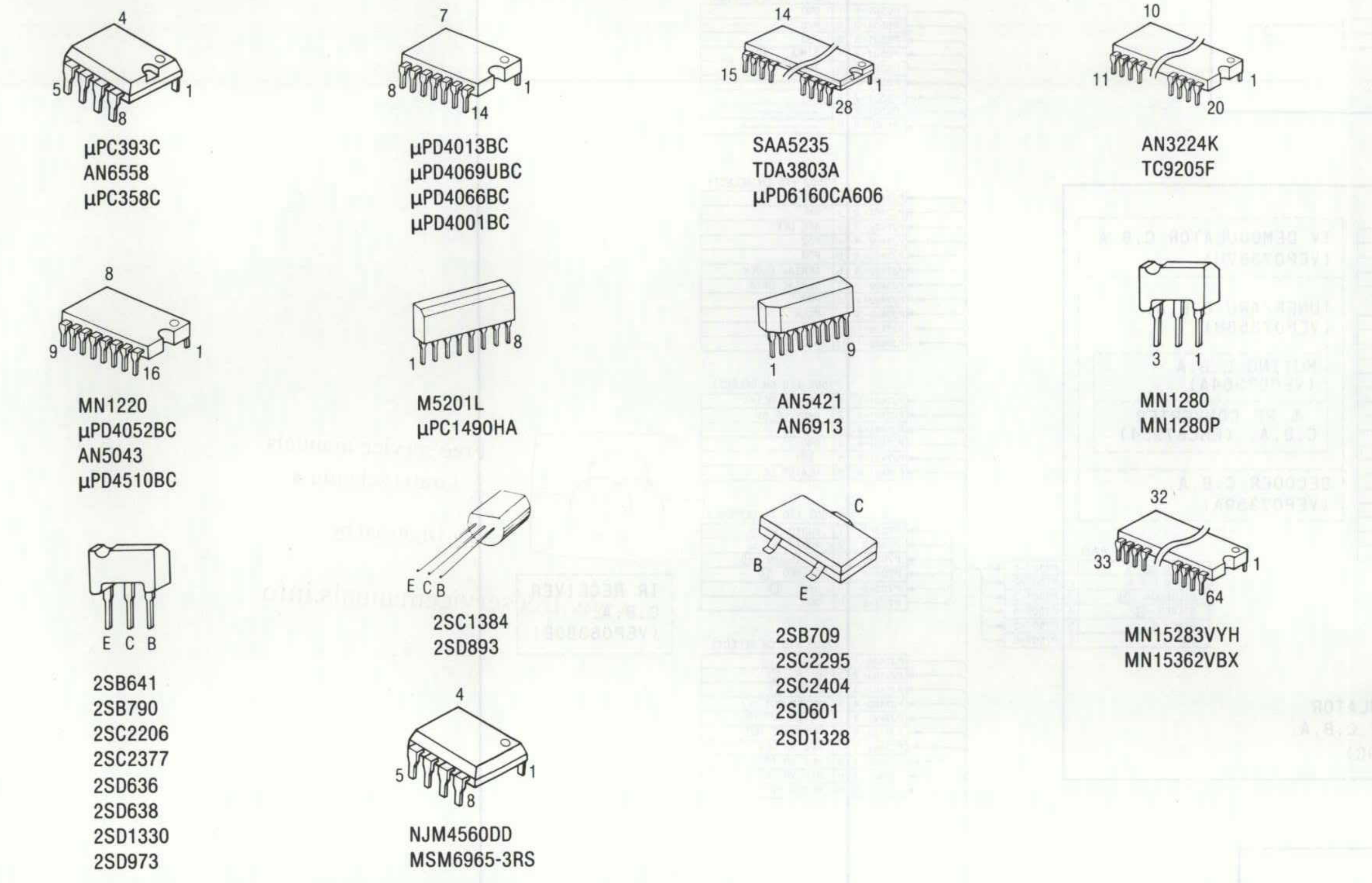
3-41. PROGRAMMABLE REMOTE CONTROLLER C.B.A. (VEP66030A)



3/20/15

3-45. ICs & TRs INFORMATION

GENERAL CIRCUIT PARTS



µPC393C
AN6558
µPC358C

µPD4013BC
µPD4069UBC
µPD4066BC
µPD4001BC

SAA5235
TDA3803A
µPD6160CA606

AN3224K
TC9205F

MN1220
µPD4052BC
AN5043
µPD4510BC

M5201L
µPC1490HA

AN5421
AN6913

MN1280
MN1280P

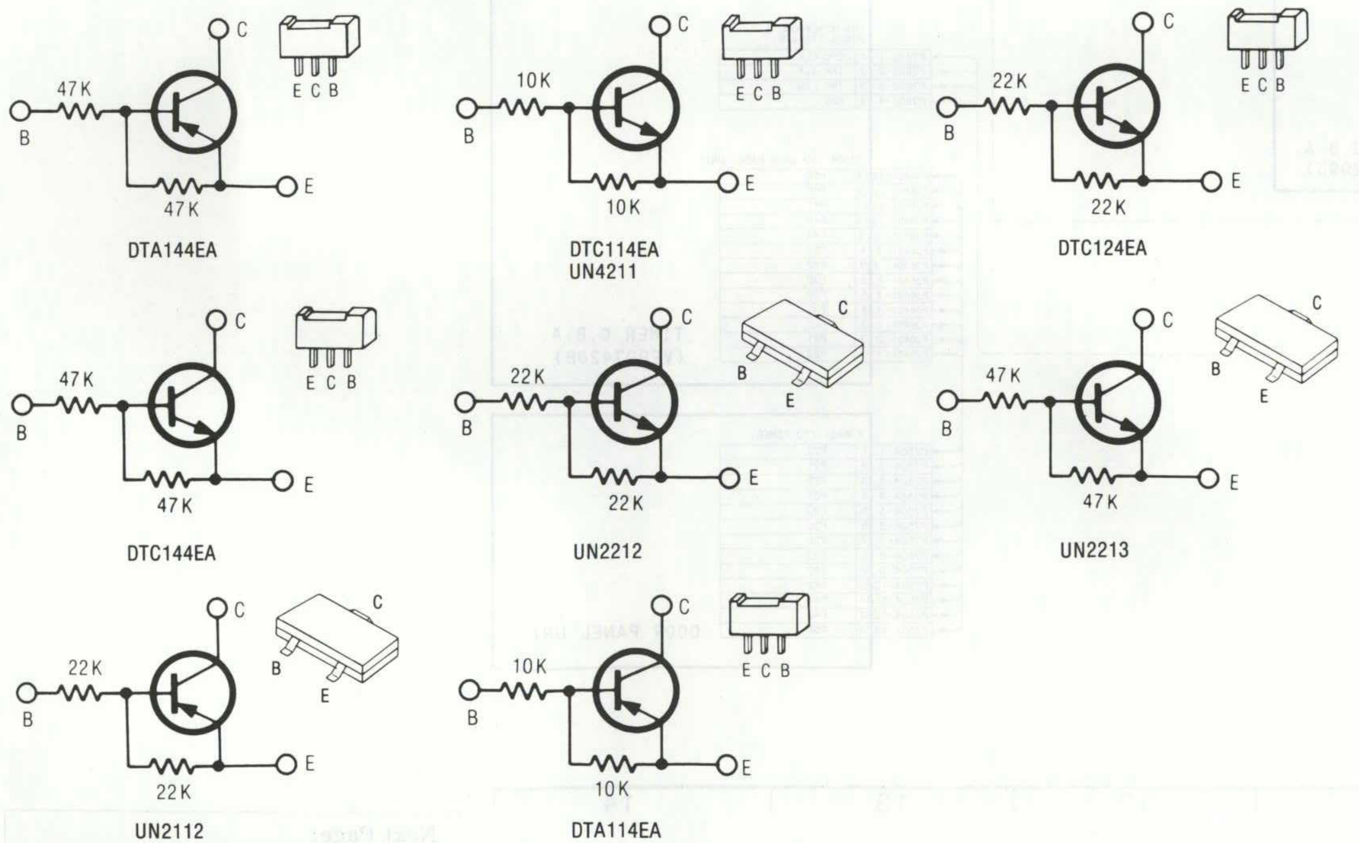
2SB641
2SB790
2SC2206
2SC2377
2SD636
2SD638
2SD1330
2SD973

2SC1384
2SD893

2SB709
2SC2295
2SC2404
2SD601
2SD1328

MN15283VYH
MN15362VBX

NJM4560DD
MSM6965-3RS



DTA144EA

DTC114EA
UN4211

DTC124EA

DTC144EA

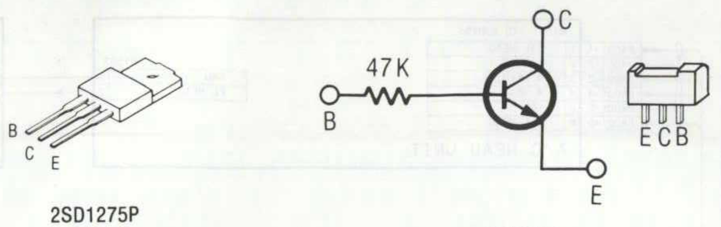
UN2212

UN2213

UN2112

DTA114EA

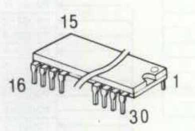
SYSTEM CONTROL Section



2SD1275P

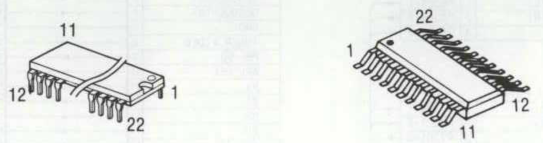
UN1210

TIMER



BA6800AS

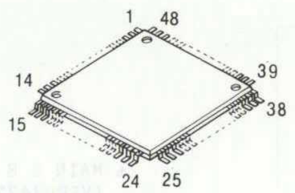
HEAD AMP



µPC2304CA

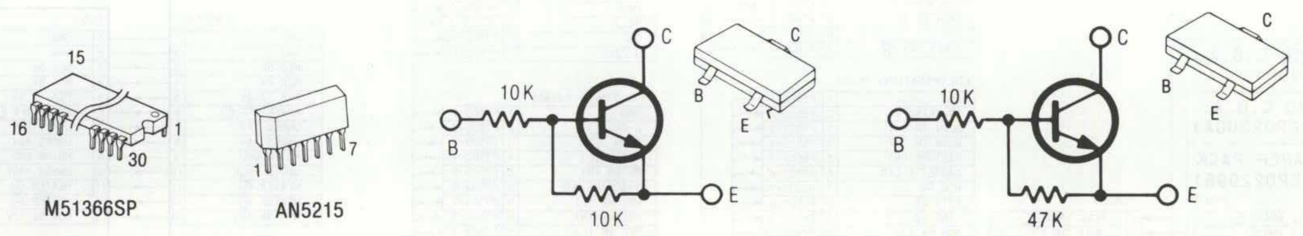
AN3311S

FM AUDIO PACK



µPC2306GH
µPC2305GH

TV DEMODULATOR



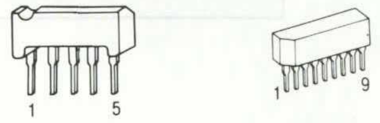
M51366SP

AN5215

UN2211

UN2214

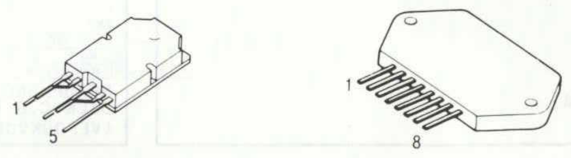
INPUT/OUTPUT PACK



BA7004

TA7348P

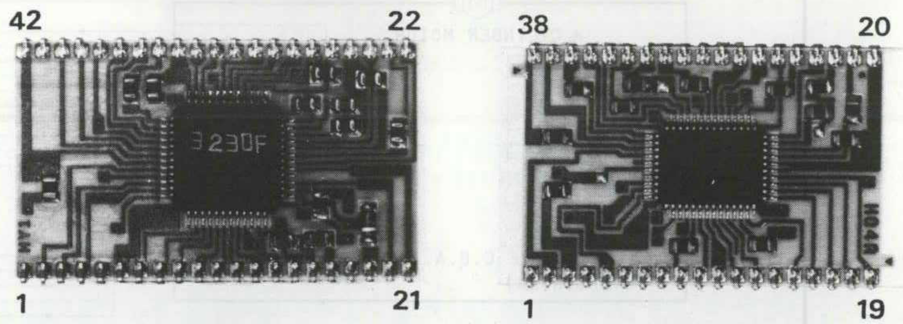
POWER Section



STRD1806

STK5337

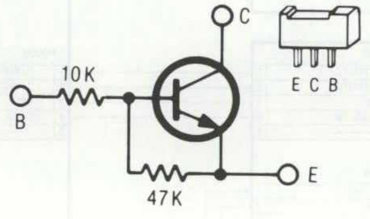
LUMINANCE & CHROMINANCE PACK



VEFH03A

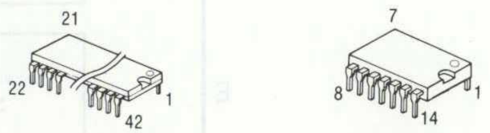
VEFH04A

LUMINANCE & CHROMINANCE Section



DTC114YA

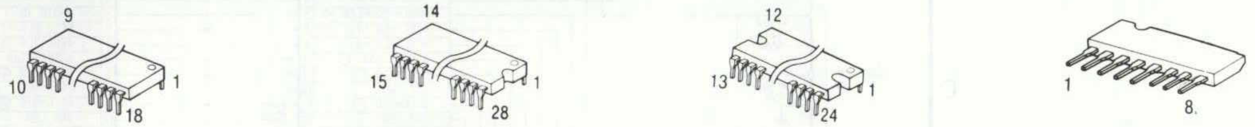
VPS



MN158412VYR

SAF1135P

SERVO Section

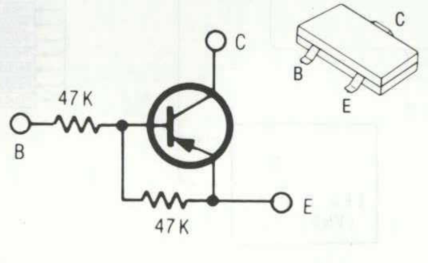


AN3814K

MN15312VYM

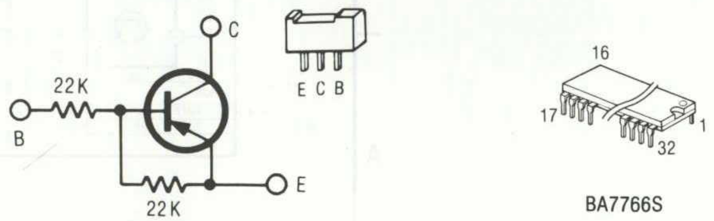
BA6430S

BA6305



DTA144KE

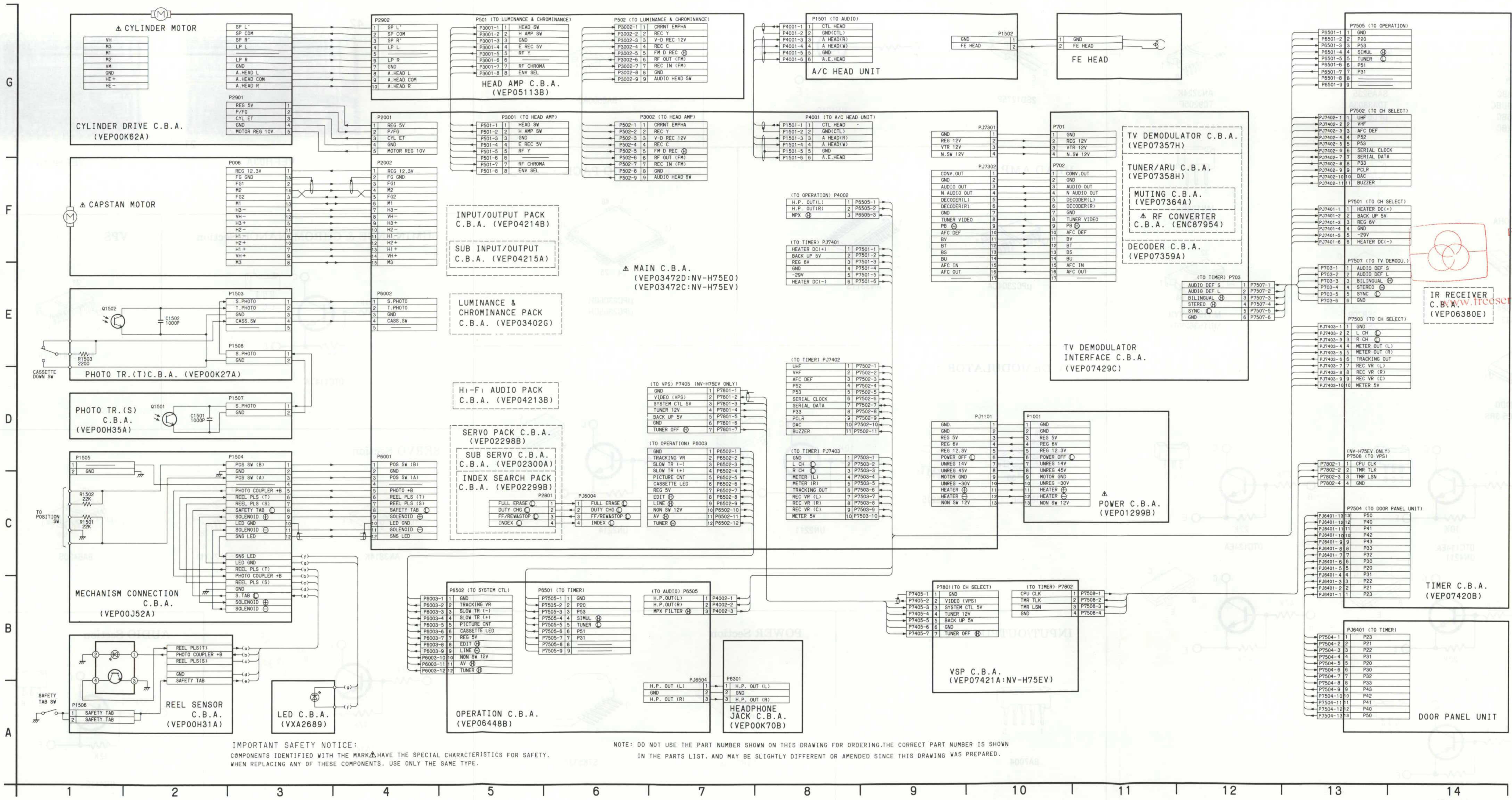
AUDIO Section



UN4112

BA7766S

3-44. INTERCONNECTION SCHEMATIC DIAGRAM



⚠ CYLINDER MOTOR
CYLINDER DRIVE C.B.A. (VEP00K62A)
⚠ CAPSTAN MOTOR
PHOTO TR.(T)C.B.A. (VEP00K27A)
CASSETTE DOWN SW
PHOTO TR.(S) C.B.A. (VEP00H35A)
TO POSITION SW
MECHANISM CONNECTION C.B.A. (VEP00J52A)
SAFETY TAB SW
REEL SENSOR C.B.A. (VEP00H31A)
LED C.B.A. (VXA2689)
HEAD AMP C.B.A. (VEP05113B)
INPUT/OUTPUT PACK C.B.A. (VEP04214B)
SUB INPUT/OUTPUT C.B.A. (VEP04215A)
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402G)
HI-FI AUDIO PACK C.B.A. (VEP04213B)
SERVO PACK C.B.A. (VEP02298B)
SUB SERVO C.B.A. (VEP02300A)
INDEX SEARCH PACK C.B.A. (VEP02299B)
⚠ MAIN C.B.A. (VEP03472D:NV-H75EO) (VEP03472C:NV-H75EV)
A/C HEAD UNIT
FE HEAD
TV DEMODULATOR C.B.A. (VEP07357H)
TUNER/ARU C.B.A. (VEP07358H)
MUTING C.B.A. (VEP07364A)
⚠ RF CONVERTER C.B.A. (ENC87954)
DECODER C.B.A. (VEP07359A)
TV DEMODULATOR INTERFACE C.B.A. (VEP07429C)
⚠ POWER C.B.A. (VEP01299B)
OPERATION C.B.A. (VEP06448B)
HEADPHONE JACK C.B.A. (VEP00K70B)
VSP C.B.A. (VEP07421A:NV-H75EV)
IR RECEIVER C.B.A. (VEP06380E)
TIMER C.B.A. (VEP07420B)
DOOR PANEL UNIT
A
B
C
D
E
F
G
1
2
3
4
5
6
7
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11
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13
14

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK⚠HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

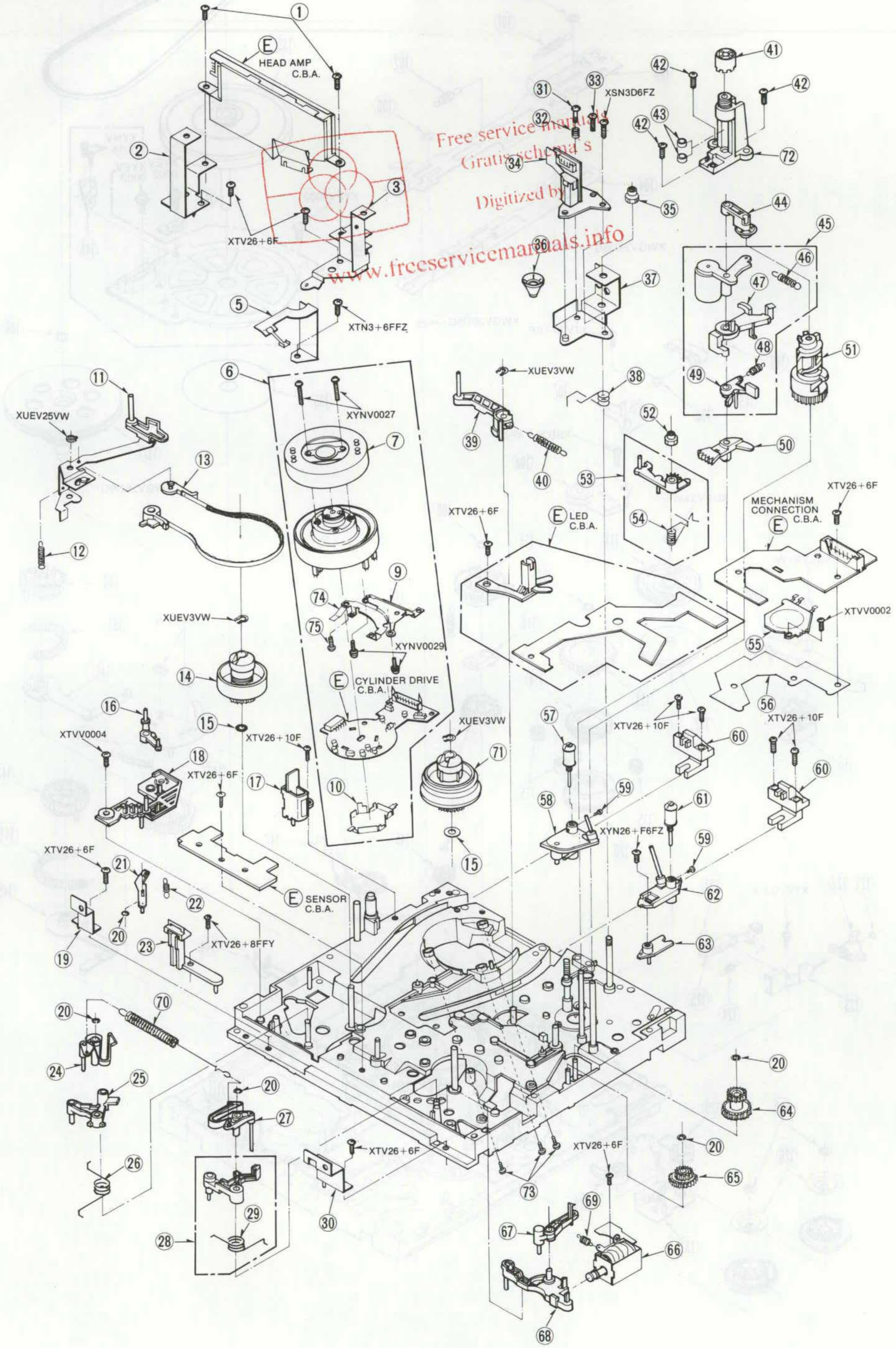
Free service manuals
Gratis schema's

Next Page:
ICs & TRs INFORMATION Section

SECTION 4
EXPLODED VIEWS & PARTS LIST

4-1. EXPLODED VIEW

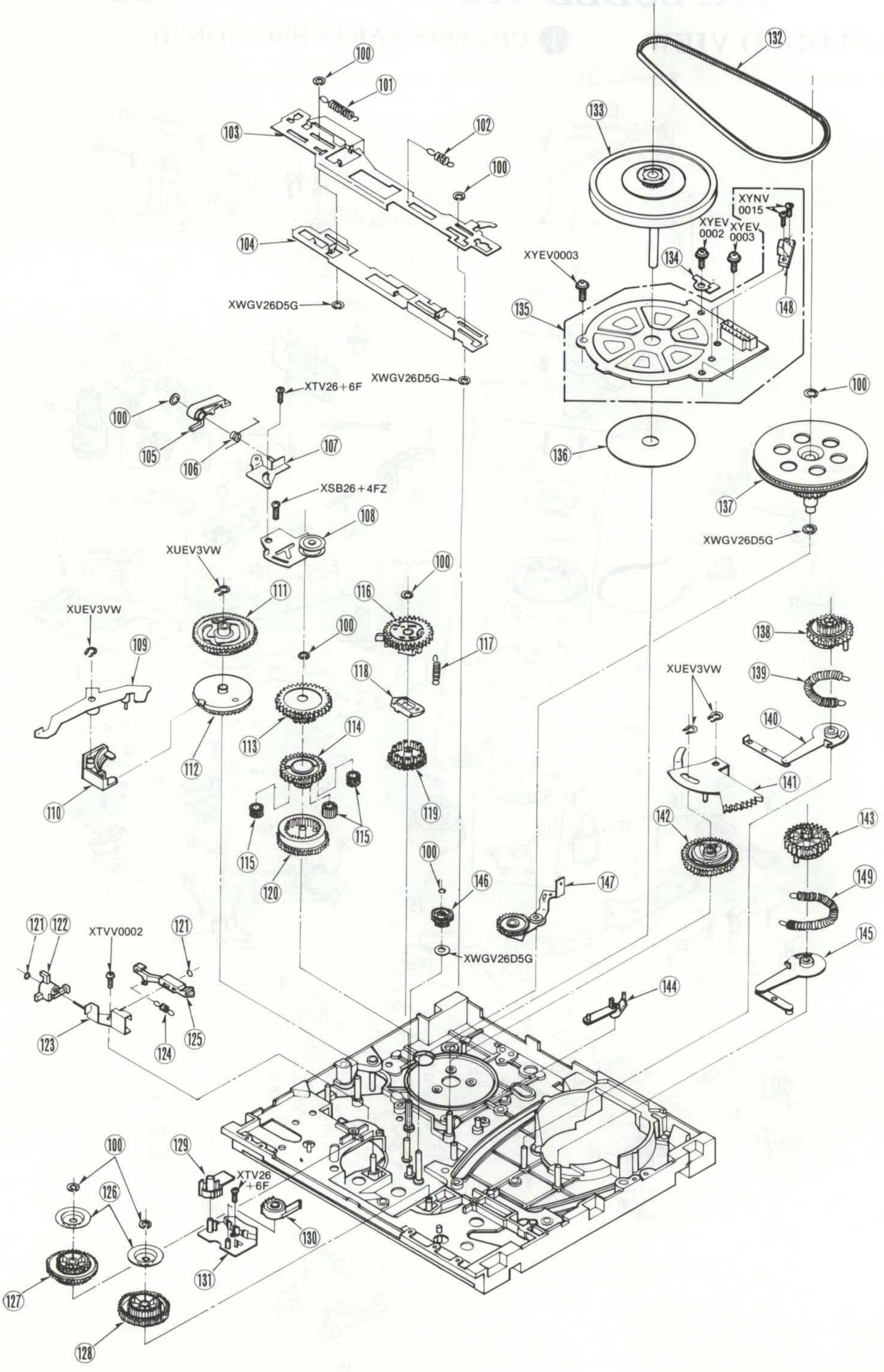
❶ CHASSIS PARTS SECTION (1)



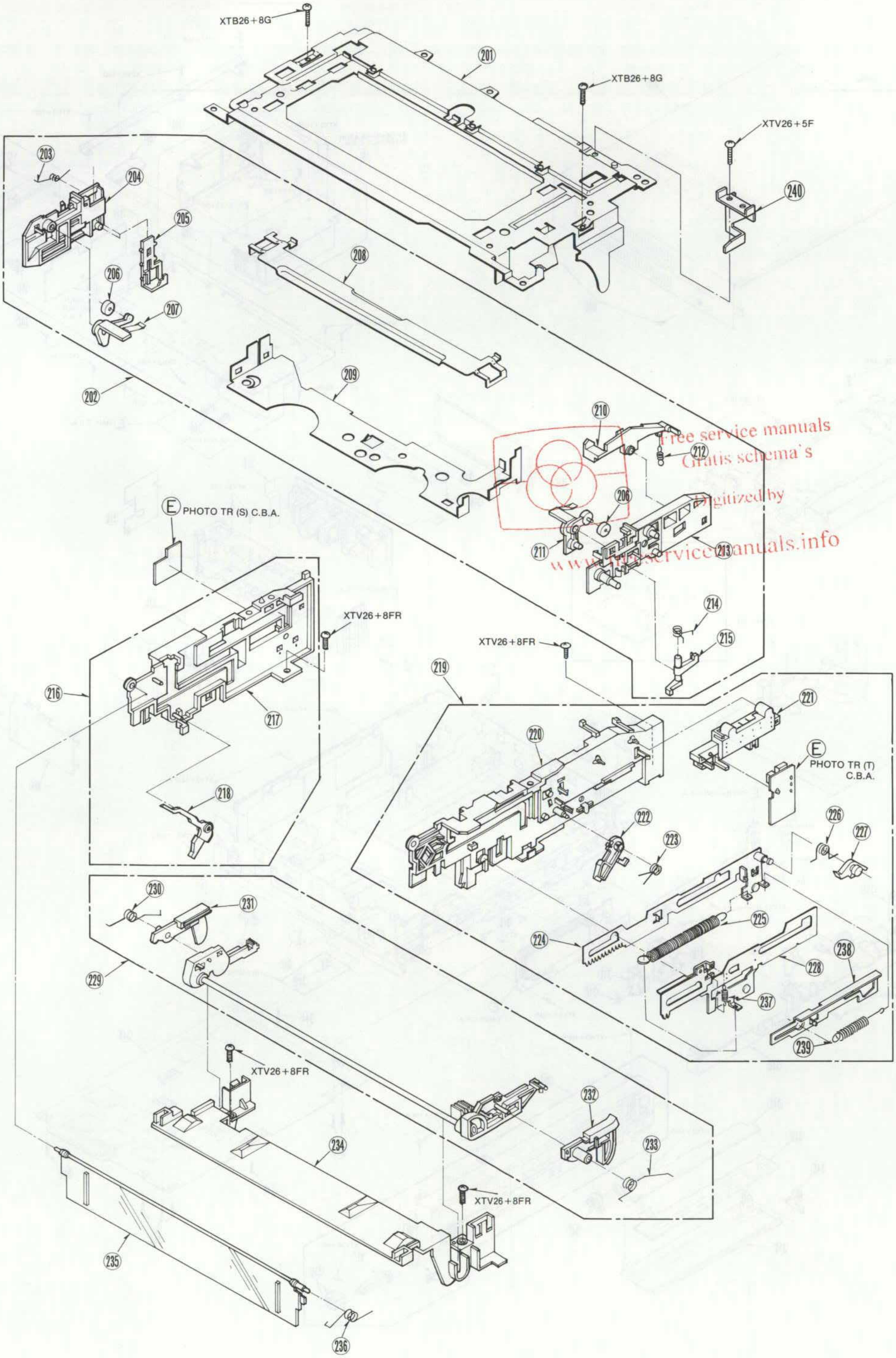
Free service manuals
Gratis schema's

3/20/15

❷ CHASSIS PARTS SECTION (2)

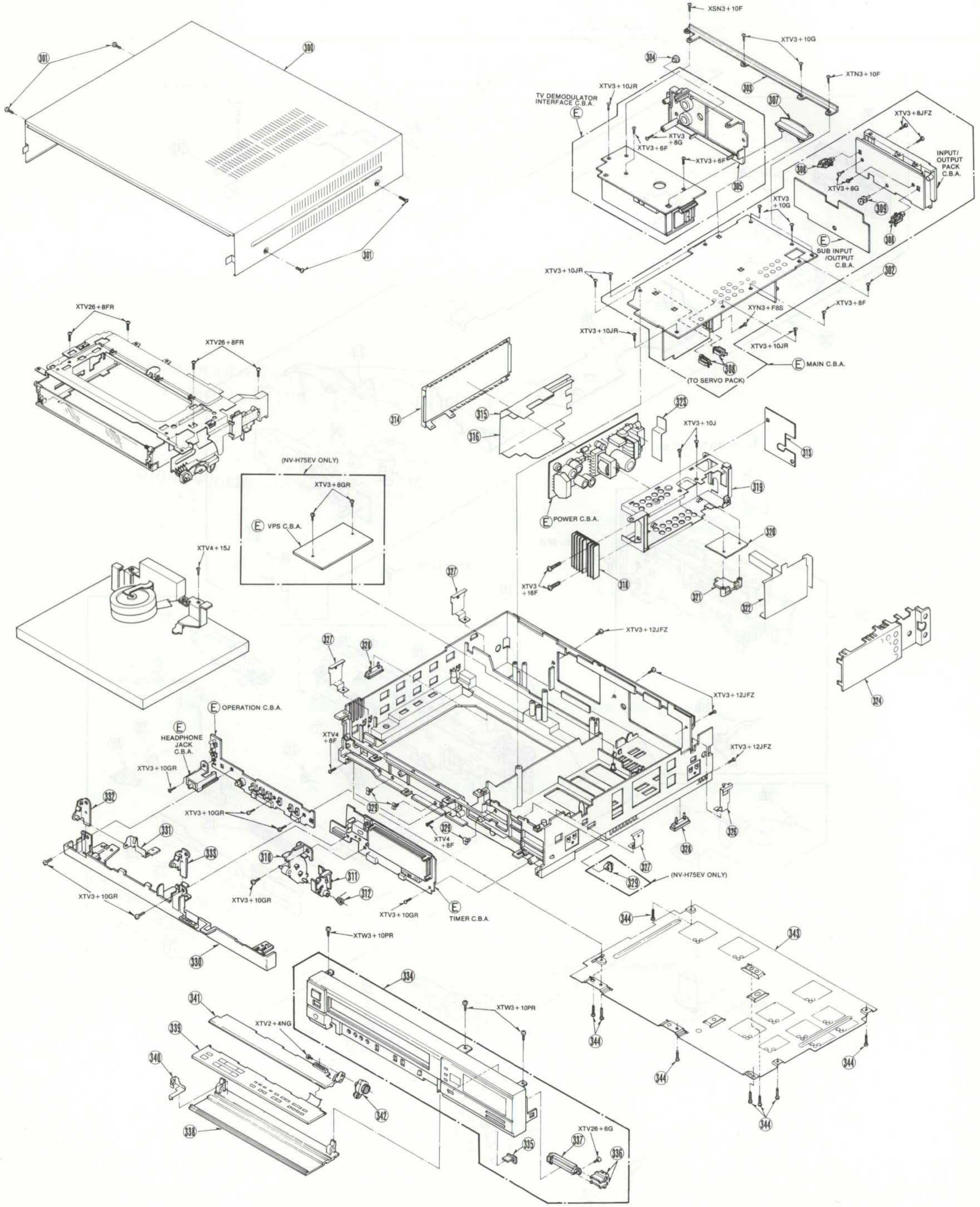


❸ CASSETTE UP MECHANISM SECTION

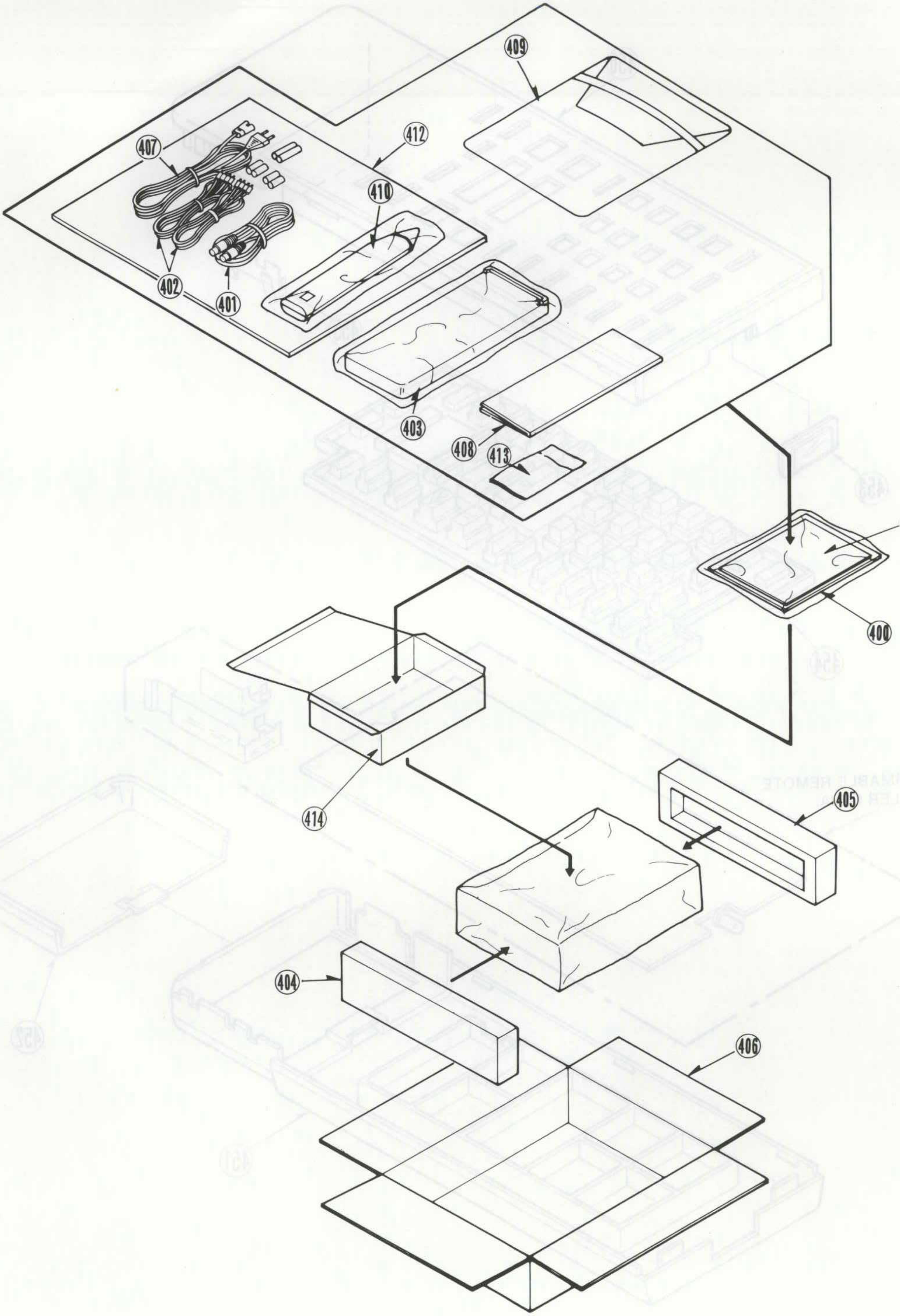


Free service manuals
Gratis schema's

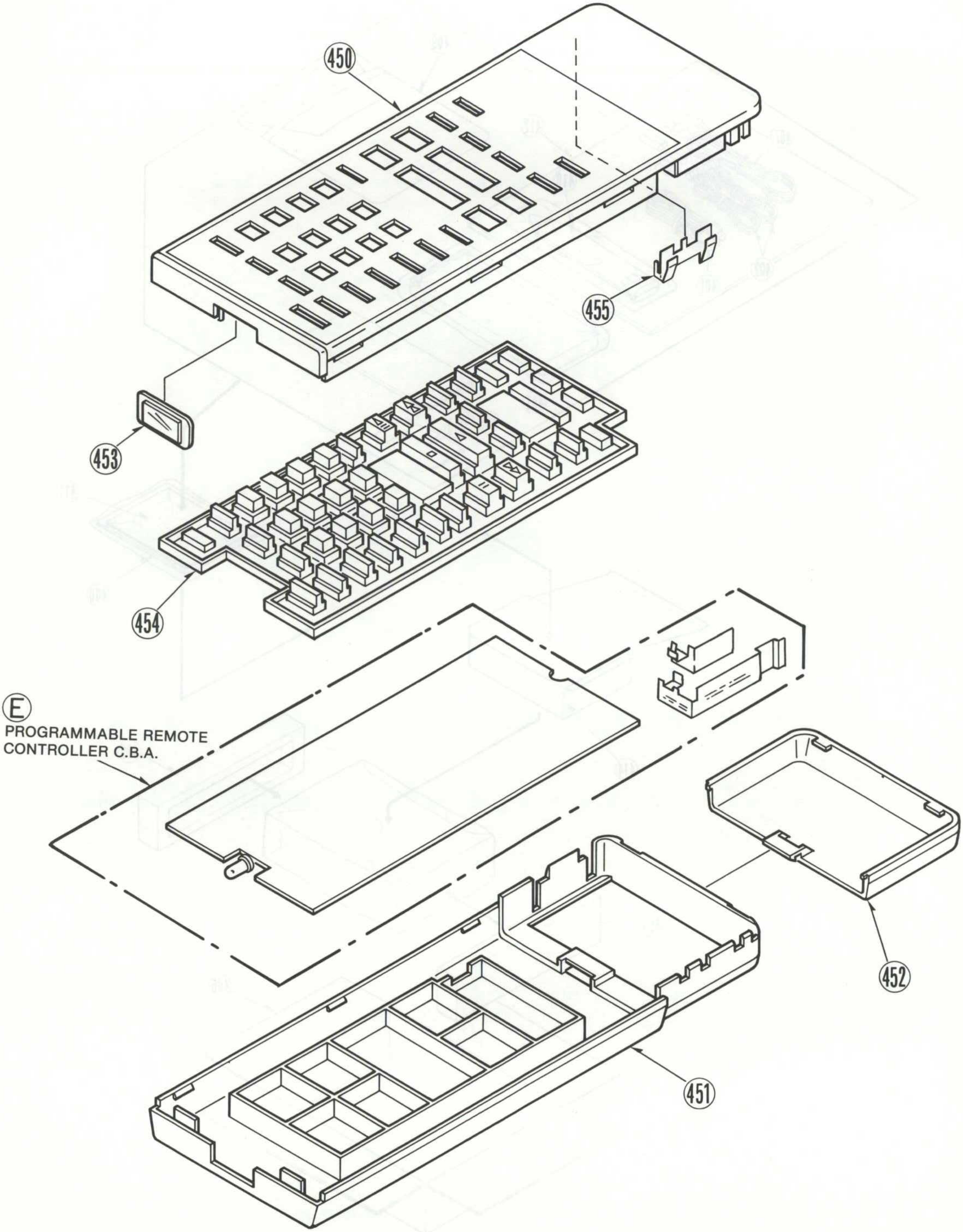
❹ CASING PARTS SECTION



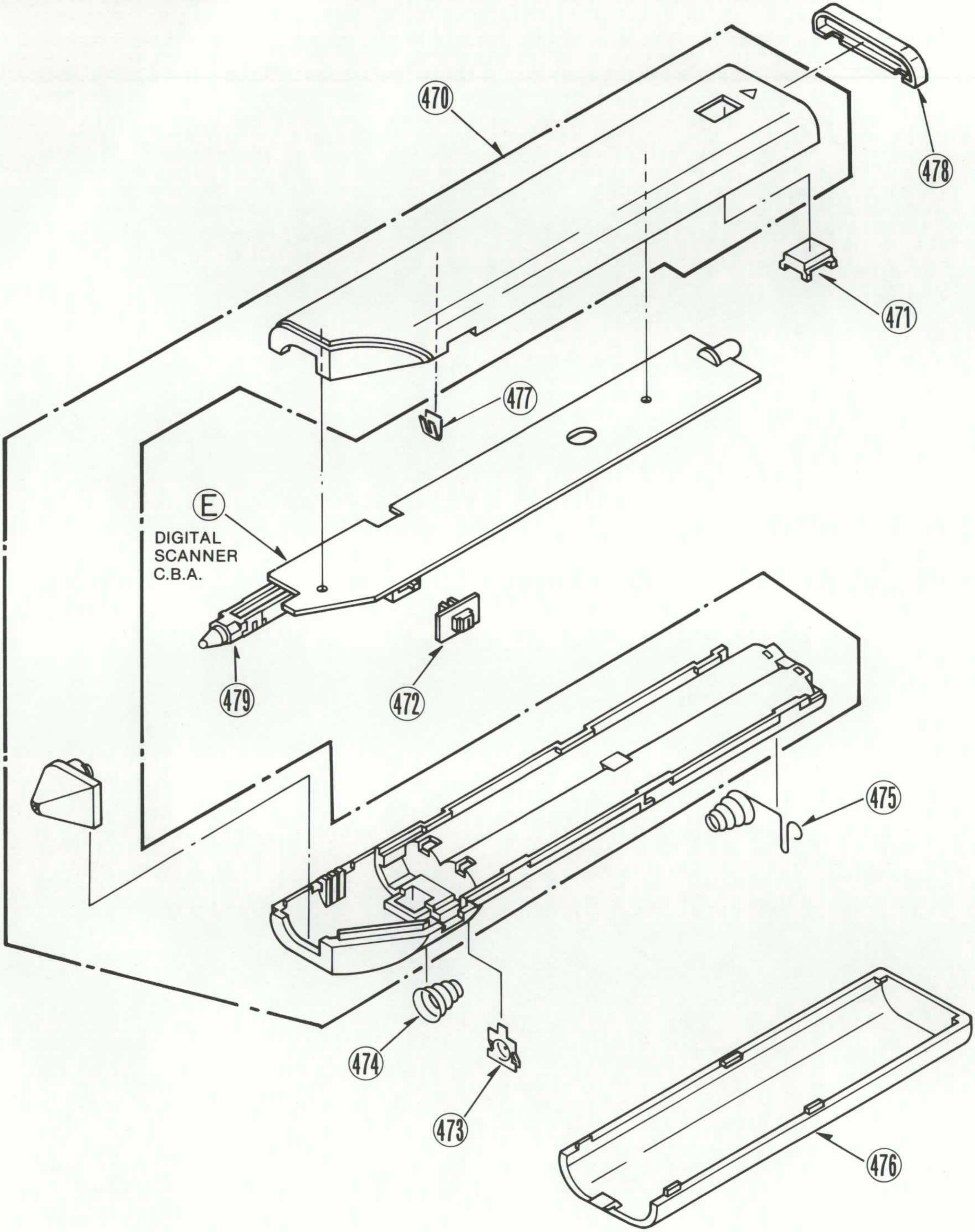
❺ PACKING PARTS SECTION



❻ PROGRAMMABLE REMOTE CONTROLLER UNIT



❼ DIGITAL SCANNER



ORDER No. VRD8710M157
(Date of issue: OCT, 1987)

PARTS LIST

MODEL NO: NV-H75EO/EV

1.NV-H75EO/EV Mechanical Replacement Parts List

∗This parts list is detachable from the manual.

Note:1.∗ Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1(1)	VHD0141	HEAD AMP SET SCREW	2	
2(1)	VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
3(1)	VMA6898	HEAD AMP MOUNT ANGLE (R)	1	
5(1)	VXA2702	EARTH PLATE UNIT	1	
6(1)	VEG0559	CYLINDER UNIT	1	<!>
7(1)	VEH0352	UPPER CYLINDER UNIT	1	
9(1)	VMA6884	MAIN HOLDER UNIT	1	
10(1)	VSC2188	CYLINDER C.B.A SHIELD PLATE	1	
11(1)	VXL1495	TENSION ARM (1) UNIT	1	
12(1)	VMB1563	TENSION SPRING	1	
13(1)	VXZ0225	TENSION BAND UNIT	1	
14(1)	VXR0145	SUPPLY REEL TABLE UNIT	1	
15(1)	VMX1171	REEL WASHER	2	
16(1)	VXL1496	TENSION RELEASE ARM(A)UNIT	1	
17(1)	VBS0038	FE HEAD	1	
18(1)	VXA2705	TENSION ARM BASE (1) UNIT	1	
19(1)	VMA6895	MOUNT ANGLE (L)	1	
20(1)	VMX1079	CUT WASHER	5	
21(1)	VXL1497	TENSION RELEASE ARM(B)UNIT	1	
22(1)	VMB1582	TENSION RELEASE SPRING	1	
23(1)	VES0350	SAFETY SW	1	
24(1)	VXZ0229	SUPPLY MAIN BRAKE UNIT	1	
25(1)	VXZ0228	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)	VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)	VXZ0231	TAKE UP MAIN BRAKE UNIT	1	
28(1)	VXZ0252	TAKE UP SOFT BRAKE UNIT	1	
29(1)	VMB1561	TAKE UP SOFT BRAKE SPRING	1	
30(1)	VMA6896	MOUNT ANGLE (R)	1	
31(1)	VHD0322	ADJUST SCREW	1	
32(1)	VMB1251	ADJUST SPRING	1	
33(1)	VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)	VBR0125	A/C HEAD	1	
35(1)	VHN0063	M4 NYLON NUT	1	
36(1)	VHN0050	ADJUST NUT	1	
37(1)	VXA2675	HEAD BASE UNIT	1	
38(1)	VMB1567	A/C HEAD SPRING	1	
39(1)	VXL1480	SUB LOADING ARM (1) UNIT	1	
40(1)	VMB1566	SUB POST SPRING	1	
41(1)	VXQ0006	THRUST SCREW UNIT	1	
42(1)	VHD0317	HOUSING SCREW	3	
43(1)	VMX1033	OIL SEAL	2	
44(1)	VMX1078	PINCH CAM CAP	1	
45(1)	VXL1481	PRESSURE ROLLER UNIT	1	
46(1)	VMB1568	PIN PRESSURE SPRING	1	
47(1)	VML1873	PINCH PRESSURE ARM	1	
48(1)	VMB1569	PINCH PRESSURE ARM RELEASE SPRING	1	
49(1)	VML1874	PINCH LIFT ARM	1	
50(1)	VDG0357	P5 PULL OUT SECTOR GEAR	1	
51(1)	VDG0421	PINCH CAM	1	
52(1)	VHN0023	M3 NYLON NUT	1	
53(1)	VXL1485	P5 UNIT	1	
54(1)	VMB1554	P5 SPRING	1	
55(1)	VSS0175	MODE SW	1	
56(1)	VSC1851	SHIELD PLATE	1	
57(1)	VXP0863	ROLLER POST UNIT	1	
58(1)	VXA2729	INCLIND BASE (S)(1)UNIT	1	
59(1)	VHD0133	ROLLER POST SCREW	2	
60(1)	VMD0910	POST STOPPER	2	
61(1)	VXP0764A	ROLLER POST UNIT	1	
62(1)	VXA2686	INCLIND BASE(T)(1)UNIT	1	
63(1)	VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)	VDG0334	PINCH SPEED DOWN GEAR	1	
65(1)	VDG0332	CONNECTION GEAR	1	
66(1)	VXA2693	SOLENOID	1	
67(1)	VXA2692	KICK ROD UNIT	1	
68(1)	VXA2691	SOLENOID LEVER (1) UNIT	1	
69(1)	VMB1553	KICK ROD SPRING	1	
70(1)	VMB1565	MAIN BRAKE SPRING	1	
71(1)	VXR0146	TAKE UP REEL TABLE UNIT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
72(1)	VXD0101	HOUSING UNIT	1	
73(1)	VHD0342	CYLINDER MOUNT SCREW	3	
74(1)	VSC1843	HEAT SINK PLATE	1	
75(1)	VHD0329	HEAT SINK SCREW	1	
100(2)	VMX1079	CUT WASHER	8	
101(2)	VMB1583	TAKE UP SOFT BRAKE RELEASE ARM SPRING	1	
102(2)	VMB1560	MAIN LEVER SPRING	1	
103(2)	VXA2701	MAIN LEVER (1) UNIT	1	
104(2)	VMM0160	SUB LEVER	1	
105(2)	VXL1500	SS BRAKE ARM UNIT	1	
106(2)	VMB1588	SS BRAKE SPRING	1	
107(2)	VXA2707	SS BRAKE BASE (1) UNIT	1	
108(2)	VXA2674	TENSION ROLLER UNIT	1	
109(2)	VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)	VML1861	DETENT ARM	1	
111(2)	VDG0346	MAIN CAM GEAR	1	
112(2)	VDG0343	SUB CAM GEAR	1	
113(2)	VDG0348	CENTRE GEAR	1	
114(2)	VDG0422	RETAINER GEAR	1	
115(2)	VDG0345	PLANET GEAR	3	
116(2)	VDG0349	CLUTCH DISK	1	
117(2)	VMB1558	CLUTCH SPRING	1	
118(2)	VDG0350	LOCK SLIDE GEAR	1	
119(2)	VDG0335	DRIVE DISK	1	
120(2)	VDG0342	RING GEAR	1	
121(2)	VMX0967	CUT WASHER	2	
122(2)	VML1859	CHANGE LEVER	1	
123(2)	VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)	VMB1557	RELEASE SPRING	1	
125(2)	VML1860	RELEASE LEVER	1	
126(2)	VMX1124	REEL GEAR RING	2	
127(2)	VXP0779	TAKE UP REEL GEAR UNIT	1	
128(2)	VDG0337	SUPPLY REEL GEAR	1	
129(2)	VML1858	RETURN LEVER (R)	1	
130(2)	VML1857	RETURN LEVER (L)	1	
131(2)	VMD0913	STOPPER BASE	1	
132(2)	VDV0159	TIMING BELT	1	
133(2)	VXP0777	ROTOR UNIT	1	
134(2)	VMA6998	ROTOR STOPPER	1	
135(2)	VEK2944	STATOR UNIT	1	<!>
136(2)	VMA6847	SUB PLATE	1	
137(2)	VXP0767	CENTRE PULLEY UNIT	1	
138(2)	VDG0420	LOADING GEAR (T)	1	
139(2)	VMB1555	LOADING SPRING (T)	1	
140(2)	VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)	VXA2929	SECTOR GEAR UNIT	1	
142(2)	VDG0448	LOADING CAM GEAR	1	
143(2)	VDG0419	LOADING GEAR (S)	1	
144(2)	VML1855	PLAY CONTROL ARM	1	
145(2)	VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)	VDG0336	INTERMEDIATE GEAR	1	
147(2)	VXL1490	PLAY ARM UNIT	1	
148(2)	VBK0048	FG HEAD	1	
149(2)	VMB1746	LOADING SPRING(S)	1	
201(3)	VMA7223	TOP PLATE	1	
202(3)	VXA2679	CASSETTE HOLDER UNIT	1	
203(3)	VMB1573	MOUNT LEVER SPRING	1	
204(3)	VMD0919	HOLDER GUIDE (L)	1	
205(3)	VMM0163	MOUNT LEVER	1	
206(3)	VDP1077	ROLLER	2	
207(3)	VML1883	PRESSURE LEVER (L)	1	
208(3)	VMA6902	HOLDER ANGLE	1	
209(3)	VMA6901	CASSETTE HOLDER	1	
210(3)	VML1882	OPENER LEVER	1	
211(3)	VML1884	PRESSURE LEVER (R)	1	
212(3)	VMB1584	OPENER LEVER SPRING	1	
213(3)	VMD0920	HOLDER GUIDE (R)	1	
214(3)	VMB1576	RELEASE SPRING	1	
215(3)	VML1881	RELEASE LEVER	1	
216(3)	VXA2676	SIDE PLATE (L) UNIT	1	
217(3)	VMD0917	SIDE PLATE (L)	1	
218(3)	VML1880	OPENER LEVER	1	
219(3)	VXA2677	SIDE PLATE (R) UNIT	1	
220(3)	VMD0918	SIDE PLATE (R)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
221(3)		VSS0176	SLIDE SW	1	
222(3)		VML1886	DOWN SUPPORT LEVER	1	
223(3)		VMB1575	DOWN SUPPORT SPRING	1	
224(3)		VXA2695	RACK (A)(1) UNIT	1	
225(3)		VMB1572	CLUTCH SPRING	1	
226(3)		VMB1574	LOCK SPRING	1	
227(3)		VML1885	LOCK LEVER	1	
228(3)		VXA2829	RACK (B) UNIT	1	
229(3)		VXP0771	MAIN SHAFT UNIT	1	
230(3)		VMB1570	SUB WIPER SPRING (L)	1	
231(3)		VML1878	SUB WIPER ARM	1	
232(3)		VML1879	SUB WIPER ARM (R)	1	
233(3)		VMB1571	SUB WIPER SPRING (R)	1	
234(3)		VMA6900	CASSETTE GUIDE	1	
235(3)		VKF0848	BLINDER PANEL	1	
236(3)		VMB1258	BLINDER SPRING	1	
237(3)		VMB1650	RACK (C) SPRING	1	
238(3)		VMA7062	CONNECTION ROD	1	
239(3)		VMB1686	CONNECTION ROD SPRING	1	
240(3)		VMA7224	CASSETTE HOLDER ANGLE	1	
300(4)		VYP1814	TOP PANEL UNIT	1	
301(4)		VHD0378	TOP PANEL SCREW	4	
302(4)		VHD0268	C.B. MOUNT SCREW	1	
303(4)		VMP1059	C.B. ANGLE	1	
304(4)		VMG0272	RF CONVERTER BUSHING	1	
305(4)		VJH0418	RF & ANT BOARD	1	
307(4)		VKC0083	HINGE CLIP	1	
308(4)		VJF0236	C.B. SUPPORTER	4	
309(4)		VMX0985	C.B. SPACER	1	
310(4)		VDG0437	DOOR GEAR	1	
311(4)		VML2075	DOOR OPEN LEVER	1	
312(4)		VMB1756	OPEN LEVER SPRING	1	
313(4)		VGH1127	POWER NAME PLATE	1	<!>
314(4)		VSC2178	SHIELD CASE (L)	1	
315(4)		VMZ1083	BARRIER (A)	1	<!>
316(4)		VMZ1084	BARRIER (B)	1	<!>
318(4)		VSC1933	HEAT SINSK	1	
319(4)		VSC1924	SHIELD CASE MAIN	1	
320(4)		VMZ1089	INSULATION SHEET	1	<!>
321(4)		VGQ1352	TR. HOLDER	1	
322(4)		VMZ1085	BARRIER (C)	1	<!>
323(4)		VMZ1086	BARRIER (D)	1	<!>
324(4)		VSC1829	SHIELD CASE (R)	1	
326(4)		VMP1127	TOP HOLDER ANGLE	1	
327(4)		VMP1037	TOP HOLDER ANGLE (L)	3	
328(4)		VKA0026	RUBBER FOOT	2	
329(4)		VJF0442	WIRE SUDLE	3	NV-H75EO
329(4)		VJF0442	WIRE SUDLE	4	NV-H75EV
330(4)		VGP1723	SUPPORT PANEL	1	
331(4)		VMC0339	EARTH SPRING (A)	1	
332(4)		VXA3108	SUPPORT PANEL ANGLE (L)	1	
333(4)		VXA3109	SUPPORT PANEL ANGLE (R)	1	
334(4)		VYP2035	FRONT PANEL UNIT	1	
335(4)		VGU3979	DOOR OPEN BUTTON	1	
336(4)		VGU3978	REC LEVEL KNOB	2	
337(4)		VJF0522	REC LEVEL HOLDER	1	
338(4)		VYC0211	DOOR ALUMINUM UNIT	1	
339(4)		VES0421	KEY BOARD PANEL UNIT	1	NV-H75EO
339(4)		VES0420	KEY BOARD PANEL UNIT	1	NV-H75EV
340(4)		VMC0340	EARTH SPRING (B)	1	
341(4)		VGP1724	DOOR BACK PANEL	1	
342(4)		VDG0436	DAMPER GEAR	1	
343(4)		VKU0246	BOTTOM PLATE	1	
344(4)		VHD0059	BOTTOM SCREW	8	
400(5)		VQT2406	OPERATING INSTRUCTIONS	1	(ENGLISH/GERMAN/
					FRENCH)<!>
400(5)		VQT2410	OPERATING INSTRUCTIONS	1	(SWEDISH/DANISH/
					FINNISH)<!>
400(5)		VQT2411	OPERATING INSTRUCTIONS	1	(SPANISH/ITALIAN/
					DUTCH)<!>
401(5)		VJA0376	DIN RF CABLE	1	
402(5)		VJA0231	AUDIO CABLE	2	
403(5)		VEQ0616	REMOTE CONTROL UNIT	1	NV-H75EO
403(5)		VEQ0615	REMOTE CONTROL UNIT	1	NV-H75EV
404(5)		VPN1968	CUSHION (L)	1	
405(5)		VPN1969	CUSHION (R)	1	
406(5)		VPG3646	PACKING CASE	1	NV-H75EO
406(5)		VPG3647	PACKING CASE	1	NV-H75EV
407(5)		VJA0449	AC CORD	1	<!>
408(5)		VQC1010	PROGRAMME SHEET	1	
409(5)		VFC0115	DIGITAL SCANNER CASE	1	
410(5)		VEQ0549	DIGITAL SCANNER	1	
411(5)		VQT2237	OPERATING INSTRUCTIONS	1	<!>
			(DIGITAL SCANNER)		
412(5)		VPN1822	ACCESSORIES CUSHION	1	
413(5)		VQF2115	CLEANING BRUSH	1	
414(5)		VPK0688	ACCESSORIES PACKING CASE	1	
450(6)		VYK1757	TOP CASE UNIT	1	NV-H75EO
450(6)		VYK1756	TOP CASE UNIT	1	NV-H75EV
451(6)		VKM1133	BOTTOM CASE	1	
452(6)		VKF0971	BATTERY COVER	1	
453(6)		VKW0878	IR WINDOW	1	
454(6)		VSP0298	RUBBER CONTACT	1	NV-H75EO
454(6)		VSP0297	RUBBER CONTACT	1	NV-H75EV
455(6)		VJR0185	ELECTRODE (COMMON)	1	
470(7)		VYK1628	CASE UNIT	1	
471(7)		VGU3710	TRANSMISSON BUTTON	1	
472(7)		VGU3709	POWER SW KNOB	1	
473(7)		VJR0270	ELECTRODE (A)	1	
474(7)		VJR0271	ELECTRODE (B)	1	
475(7)		VJR0272	ELECTRODE (C)	1	
476(7)		VKF0900	BATTERY COVER	1	
477(7)		VMB1691	SUPPRT ANGLE	1	
478(7)		VKW0772	SMOKE FILTER	1	
479(7)		VSQ0533	SENSOR UNIT	1	
			JIG		
		VFJ8125H3F	VHS-ALIGNMENT TAPE (PAL)	1	
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0387	TENSION POST ADJUSTMENT	1	
			PLATE		
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0328	H-POSITION ADJ.	1	
			SCREWDRIVER		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK62	FAN TYPE TENSION GAUGE	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK0343	CHECK LIGHT	1	
		VFK0344	HEIGHT ADJUSTMENT JIG	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0283	SERVICE ALIGNMENT TOOL KIT	1	
		VFK0341	UPPER CYLINDER REMOVER	1	

2.NV-H75EO/EV Electrical Replacement Parts List

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03472C	MAIN C.B.A. (POWER, SERVO, LUMINANCE & CHROMINANCE, SYSTEM CONTROL, AUDIO)	1	NV-H75EV<!> INCLUDING THE SERVO PACK C.B.A. (VEP02298B) WITH SUB SERVO C.B.A. (VEP02300A), INDEX SEARCH PACK C.B.A. (VEP02299B), LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402G), INPUT/OUTPUT PACK C.B.A. (VEP04214B), SUB INPUT/OUTPUT C.B.A. (VEP04215A), HI-FI AUDIO PACK C.B.A. (VEP04213B).
	VEP03472D	MAIN C.B.A. (POWER, SERVO, LUMINANCE & CHROMINANCE, SYSTEM CONTROL, AUDIO)	1	NV-H75EO<!> INCLUDING THE SERVO PACK C.B.A. (VEP02298B) WITH SUB SERVO C.B.A. (VEP02300A), INDEX SEARCH PACK C.B.A. (VEP02299B), LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402G), INPUT/OUTPUT PACK C.B.A. (VEP04214B), SUB INPUT/OUTPUT C.B.A. (VEP04215A), HI-FI AUDIO PACK C.B.A. (VEP04213B).
	VEP02298B	SERVO PACK C.B.A.	1	INCLUDING THE SUB SERVO C.B.A. (VEP02300A).
	VEP02300A	SUB SERVO C.B.A.	1	
	VEP02299B	INDEX SEARCH PACK C.B.A.	1	
	VEP03402G	LUMINANCE & CHROMINANCE PACK C.B.A.	1	
	VEP04214B	INPUT/OUTPUT PACK C.B.A.	1	INCLUDING THE SUB INPUT/OUTPUT C.B.A. (VEP04215A).
	VEP04215A	SUB INPUT/OUTPUT C.B.A.	1	
	VEP04213B	HI-FI AUDIO PACK C.B.A.	1	
	VEP05113B	HEAD AMP C.B.A.	1	
	VEP06448B	OPERATION C.B.A.	1	INCLUDING THE HEAD

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
				PHONE JACK C.B.A. (VEP00K70B).
	VEP00K70B	HEAD PHONE JACK C.B.A.	1	
	VEP07420B	TIMER C.B.A.	1	NV-H75EV INCLUDING THE IR RECEIVER C.B.A. (VEP06380E).
	VEP07420G	TIMER C.B.A.	1	NV-H75EO INCLUDING THE IR RECEIVER C.B.A. (VEP06380E).
	VEP06380E	IR RECEIVER C.B.A.	1	
	VEP07421A	VPS C.B.A.	1	NV-H75EV
	VEP07429C	TV DEMODULATOR INTERFACE C.B.A.	1	INCLUDING THE TV DEMODULATOR C.B.A. (VEP07357H), TUNER/ARU C.B.A. (VEP07358H), MUTING C.B.A. (VEP07364A), DECODER C.B.A. (VEP07359A).
	VEP07357H	TV DEMODULATOR C.B.A.	1	
	VEP07358H	TUNER/ARU C.B.A.	1	
	VEP07364A	MUTING C.B.A.	1	
	VEP07359A	DECODER C.B.A.	1	
	VEP01299B	POWER C.B.A.	1	<!>
	VEP66019D	DIGITAL SCANNER C.B.A.	1	
	VEP66030A	PROGRAMMABLE REMOTE CONTROLLER C.B.A.	1	
	VEP00K62A	CYLINDER DRIVE C.B.A.	1	
	VEP00J52A	MECHANISM CONNECTION C.B.A.	1	
	VEP00H31A	REEL SENSOR C.B.A.	1	
	VXA2689	LED C.B.A. UNIT	1	
	VEP00K27A	PHOTE TR(T) C.B.A.	1	
	VEP00H35A	PHOTE TR(S) C.B.A.	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		ENC87954	RF CONVERTER UNIT	1	<!>
		TNV57475F2	TUNER	1	<!>
F1001		XBA2C16TB0	FUSE 250V 1.6A	1	<!>
T1001		VLT0515	POWER TRANSFORMER	1	<!>
	■	VEP03472C	MAIN C.B.A.		NV-H75EV<!>
	■	VEP03472D	(POWER, SERVO, LUMINANCE &		NV-H75EO<!>
			CHROMINANCE, SYSTEM CONTROL,		
			AUDIO)		
			CAPACITORS		
C202		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C203		ECUM1H562KBN	CHIP 50V 5600P	1	
C204		ECEA1CN100SB	E.CAPACITOR 16V 10U	1	
C205		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C206		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C207		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C208		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C209		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C210		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C212		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C213		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C214		ECUM1H102KBN	CHIP 50V 1000P	1	
C215		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C216		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C217		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C218		ECUM1H472KBN	CHIP 50V 4700P	1	
C219		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C220		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C221		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C222		ECUM1H562KBN	CHIP 50V 5600P	1	
C223		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C224		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C225		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C226		ECUM1H102KBN	CHIP 50V 1000P	1	
C227		ECUM1H332KBN	CHIP 50V 3300P	1	
C229		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C230		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C231		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C232		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C234		ECUM1H102KBN	CHIP 50V 1000P	1	
C237		ECQB1H562JH	P.CAPACITOR 50V 5600P	1	
C238		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C239		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C240		ECEA16Z10	E.CAPACITOR 16V 10U	1	
C241		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C242		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C243		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C244		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C245		ECUM1H562KBN	CHIP 50V 5600P	1	
C246		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C247		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C248		ECUM1H102KBN	CHIP 50V 1000P	1	
C254		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C255		ECKF1H332KB	C.CAPACITOR 50V 3300P	1	
C256		VCYD1E103MR	S.CAPACITOR 25V 0.01U	1	
C257		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C258		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C303		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	CHIP 50V 47P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C308		ECUM1H220JCN	CHIP 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311		ECUM1H180JCN	CHIP 50V 18P	1	
C312		ECUM1H180JCN	CHIP 50V 18P	1	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	CHIP 50V 120P	1	
C315		ECUM1H560JCN	CHIP 50V 56P	1	
C317		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	CHIP 50V 470P	1	
C320		ECUM1H270JCN	CHIP 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C326		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C327		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C328		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C329		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C331		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C335		ECUM1H680JCN	CHIP 50V 68P	1	
C336		ECUM1H101JCN	CHIP 50V 100P	1	
C337		ECUM1H270JCN	CHIP 50V 27P	1	
C338		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C339		ECUM1H680JCN	CHIP 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	CHIP 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JZ	M.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	CHIP 50V 56P	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C817		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C818		ECUM1H471KBN	CHIP 50V 470P	1	
C819		ECUM1H820JCN	CHIP 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA25Z4R7	E.CAPACITOR 25V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	CHIP 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050CCN	CHIP 50V 5P	1	
C828		ECUM1H102KBN	CHIP 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C851		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C852		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C853		ECEA10Z47	E.CAPACITOR 10V 47U	1	
C854		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C855		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C856		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C858		ECKF1H681KB	C.CAPACITOR 50V 680P	1	
C1101		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C1102		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C1103		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C1104		ECEA1CK101	E.CAPACITOR 16V 100U	1	NV-H75EV
C1110		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C2001		ECQB1H333KH	P.CAPACITOR 50V 0.033U	1	
C2002		ECQB1H333KH	P.CAPACITOR 50V 0.033U	1	
C2003		ECQB1H333KH	P.CAPACITOR 50V 0.033U	1	
C2004		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C2005		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C2006		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C2007		VCYD1C223MR1	S.CAPACITOR 16V 0.022U	1	
C2008		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2011		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2012		ECUM1H332KBN	CHIP 50V 3300P	1	
C2013		ECUM1H332KBN	CHIP 50V 3300P	1	
C2014		ECUM1H332KBN	CHIP 50V 3300P	1	
C2017		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2018		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2019		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2020		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2022		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C2801		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2802		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2803		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2804		ECUM1H181JCN	CHIP 50V 180P	1	
C2805		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2806		ECUM1H220JN	CHIP 50V 220P	1	
C2807		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2808		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C2809		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C2810		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2811		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2812		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C2813		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C2814		ECQB1H182KH	P.CAPACITOR 50V 1800P	1	
C2815		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2816		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C3001		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3004		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3005		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3006		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3007		ECUM1H390JCN	CHIP 50V 39P	1	
C3008		ECUM1H220JCN	CHIP 50V 22P	1	
C3009		ECUM1H681KBN	CHIP 50V 680P	1	
C3010		ECUM1H151JCN	CHIP 50V 150P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C3015		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3016		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3017		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C3018		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C3019		ECUM1H220JCN	CHIP 50V 22P	1	
C3020		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C3021		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3022		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3023		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3024		ECUM1H102KBN	CHIP 50V 1000P	1	
C3050		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C3051		ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C3901		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C3902		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C3903		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C3904		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3905		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C3906		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3907		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3908		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3909		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3910		VCYD1E332MR	S.CAPACITOR 25V 3300P	1	
C3911		VCYD1E332MR	S.CAPACITOR 25V 3300P	1	
C3951		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	NV-H75EO
C4001		ECQB1H153KH	P.CAPACITOR 50V 0.015U	1	NV-H75EV
C4002		ECEA16Z33	E.CAPACITOR 16V 3.3U	1	
C4003		ECUM1H102KBN	CHIP 50V 1000P	1	
C4004		ECQP1332JZ		1	
C4005		ECCF2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4010		ECQB1H183JH	P.CAPACITOR 50V 0.018U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	CHIP 50V 470P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	CHIP 50V 1000P	1	
C4017		ECEA16M10	ELECTROLYTIC 16V 10U	1	
C4018		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	CHIP 50V 1000P	1	
C4021		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C4022		ECUM1H102KBN	CHIP 50V 1000P	1	
C4023		ECUM1H221JN	CHIP 50V 220P	1	
C4024		ECUM1H101JCN	CHIP 50V 100P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4025		ECUM1H101JCN	CHIP 50V 100P	1	
C4026		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C4027		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4028		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4029		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4030		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4033		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4034		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4036		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C4037		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4038		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4100		ECEA1CPK101	E.CAPACITOR 16V 100U	1	
C4101		ECEA1APK101	E.CAPACITOR 10V 100U	1	
C4103		ECEA1HPK010	E.CAPACITOR 50V 10U	1	
C4104		ECEA1APK101	E.CAPACITOR 10V 100U	1	
C4106		ECEA1APK470	E.CAPACITOR 10V 47U	1	
C4107		ECEA1HPK010	E.CAPACITOR 50V 10U	1	
C4501		VCEA1VAC3R3J	E.CAPACITOR 35V 3.3U	1	
C4502		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C4503		ECUM1H102KBN	CHIP 50V 1000P	1	
C4504		ECQB1H222JH	P.CAPACITOR 50V 2200P	1	
C4505		ECUM1H102KBN	CHIP 50V 1000P	1	
C4506		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4507		ECEA1EPK4R7	E.CAPACITOR 25V 4.7U	1	
C4508		ECEA1CPK330	E.CAPACITOR 16V 33U	1	
C4509		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C4510		ECUM1H100DCN	CHIP 50V 10P	1	
C4511		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4512		ECUM1H222JM	CHIP 50V 2200P	1	
C4513		ECEA1EPB4R7	E.CAPACITOR 25V 4.7U	1	
C4514		VCEA1CA330	E.CAPACITOR 16V 33U	1	
C4515		ECEA25Z4R7	E.CAPACITOR 25V 4.7U	1	
C4516		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C4517		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C4518		ECUM1H471KBN	CHIP 50V 470P	1	
C4519		ECEA1HPK2R2	E.CAPACITOR 50V 2.2U	1	
C4520		ECUM1H331KBN	CHIP 50V 330P	1	
C4521		ECEA1EPK4R7	E.CAPACITOR 25V 4.7U	1	
C4522		ECEA1CPK220	E.CAPACITOR 16V 22U	1	
C4523		ECCF1H101JL	C.CAPACITOR 50V 100P	1	
C4524		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4525		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4528		ECUM1H471JCN	CHIP 50V 470P	1	
C4532		VCEA1AAC470J	E.CAPACITOR 10V 47U	1	
C4533		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4534		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4535		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4536		ECCF1H391JC	C.CAPACITOR 50V 390P	1	
C4537		ECCF1H271J	C.CAPACITOR 50V 270P	1	
C4551		VCEA1VAC3R3J	E.CAPACITOR 35V 3.3U	1	
C4552		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C4553		ECUM1H102KBN	CHIP 50V 1000P	1	
C4554		ECQB1H222JH	P.CAPACITOR 50V 2200P	1	
C4555		ECUM1H102KBN	CHIP 50V 1000P	1	
C4556		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4557		ECEA1EPK4R7	E.CAPACITOR 25V 4.7U	1	
C4558		ECEA1CPK330	E.CAPACITOR 16V 33U	1	
C4559		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C4560		ECUM1H100DCN	CHIP 50V 10P	1	
C4561		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4562		ECUM1H222JM	CHIP 50V 2200P	1	
C4563		ECEA1EPB4R7	E.CAPACITOR 25V 4.7U	1	
C4564		VCEA1CA330	E.CAPACITOR 16V 33U	1	
C4565		ECEA25Z4R7	E.CAPACITOR 25V 4.7U	1	
C4566		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C4567		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C4568		ECUM1H471KBN	CHIP 50V 470P	1	
C4569		ECEA1HPK2R2	E.CAPACITOR 50V 2.2U	1	
C4570		ECUM1H331KBN	CHIP 50V 330P	1	
C4571		ECEA1EPK4R7	E.CAPACITOR 25V 4.7U	1	
C4572		ECEA1CPK220	E.CAPACITOR 16V 22U	1	
C4573		ECCF1H101JL	C.CAPACITOR 50V 100P	1	
C4574		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4575		ECUM1H103ZFN	CHIP 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4578		ECUM1H471JCN	CHIP 50V 470P	1	
C4582		VCEA1AAC470J	E.CAPACITOR 10V 47U	1	
C4583		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4584		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4585		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4586		ECCF1H391JC	C.CAPACITOR 50V 390P	1	
C4587		ECCF1H271J	C.CAPACITOR 50V 270P	1	
C4601		VCEA1CAC101	E.CAPACITOR 16V 100U	1	
C4602		VCEA1CAC101	E.CAPACITOR 16V 100U	1	
C4603		VCEA1AAC470J	E.CAPACITOR 10V 47U	1	
C4604		ECEA1APK470	E.CAPACITOR 10V 47U	1	
C4605		ECEA1APK470	E.CAPACITOR 10V 47U	1	
C4606		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C4607		VCEA1AAC470J	E.CAPACITOR 10V 47U	1	
C4609		ECEA1HKR33	E.CAPACITOR 50V 0.33U	1	
C4610		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4611		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C4612		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C4613		VCEA1AAC101	E.CAPACITOR 10V 100U	1	
C4614		ECEA1HKR33	E.CAPACITOR 50V 0.33U	1	
C4615		VCEA1CAC470J	E.CAPACITOR 10V 47U	1	
C4616		VCEA1AAC470J	E.CAPACITOR 10V 47U	1	
C4617		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4618		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C4619		ECEA16Z6R8	E.CAPACITOR 16V 6.8U	1	
C4620		ECUM1H391JN	CHIP 50V 390P	1	
C4621		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C4629		ECUM1H221JN	CHIP 50V 200P	1	
C4630		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4631		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4632		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4633		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C4634		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C4635		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4638		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4639		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4640		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4641		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4642		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4643		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4644		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C4645		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4650		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C4901		VCEA1CAC101	E.CAPACITOR 16V 100U	1	
C4902		VCEA1CAC101	E.CAPACITOR 16V 100U	1	
C4903		ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C4904		ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C4905		ECKF1H221KB	C.CAPACITOR 50V 220P	1	
C4906		ECKF1H221KB	C.CAPACITOR 50V 220P	1	
C4911		ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C4912		ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C4919		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C4920		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4921		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4922		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4923		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4924		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4925		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4926		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C4927		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C4951		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C4952		VCEA1AAC101	E.CAPACITOR 10V 100U	1	
C4953		VCEA1CAC101	E.CAPACITOR 16V 100U	1	
C4954		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C4955		VCEA1CAC100J	E.CAPACITOR 16V 10U	1	
C4957		VCEA1AAC470J	E.CAPACITOR 10V 47U	1	
C4959		VCEA1AAC470J	E.CAPACITOR 10V 47U	1	
C4960		VCEA1CAC100J	E.CAPACITOR 16V 10U	1	
C4961		VCEA1AAC101	E.CAPACITOR 10V 100U	1	
C4965		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C4966		ECCF1H120JC	C.CAPACITOR 50V 12P	1	
C4967		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4968		ECQB1H222KH	P.CAPACITOR 50V 2200P	1	
C4969		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C4970		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4971		VCEA1CAC220J	S.CAPACITOR 16V 220P	1	
C4972		VCEA1CAC220J	S.CAPACITOR 16V 220P	1	
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C6003		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6011		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C6012		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C6013		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C6017		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6018		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6019		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6020		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C6023		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C6024		ECUM1H271KBN	CHIP 50V 270P	1	
C6025		ECUM1H271KBN	CHIP 50V 270P	1	
C6026		ECUM1H271KBN	CHIP 50V 270P	1	
C7553		ECEA1HK100	E.CAPACITOR 50V 10U	1	
C7555		ECQB1H273KH	P.CAPACITOR 50V 0.027U	1	
C7556		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7557		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7558		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7559		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7560		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7561		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7563		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7565		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7566		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7567		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7571		VCE0025		1	
C7572		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
			DIODES		
D201		MA153	DIODE	1	
D203		MA165	DIODE	1	OR 1SS119, 1SS254
D204		MA153	DIODE	1	
D301		MA4091	DIODE	1	
D1101		MA165	DIODE	1	
D1102		MA165	DIODE	1	NV-H75EV
D2007		MA165	DIODE	1	
D2801		MA165	DIODE	1	
D2802		MA165	DIODE	1	
D2803		MA165	DIODE	1	
D2804		MA165	DIODE	1	
D2805		MA165	DIODE	1	
D3001		MA165	DIODE	1	
D3003		MA165	DIODE	1	
D3901		MA165	DIODE	1	
D3951		MA165	DIODE	1	
D4001		MA165	DIODE	1	
D4002		MA165	DIODE	1	
D4003		MA700	DIODE	1	
D4004		MA700	DIODE	1	
D4050		MA165	DIODE	1	
D4501		MA151WA	DIODE	1	
D4503		MA151WA	DIODE	1	
D4514		MA165	DIODE	1	
D4516		MA165	DIODE	1	
D4517		MA151WK	DIODE	1	
D4518		MA165	DIODE	1	
D4956		MA165	DIODE	1	
D4957		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6002		MA165	DIODE	1	
D6004		MA165	DIODE	1	
D6005		MA165	DIODE	1	
D6009		MA165	DIODE	1	
D6010		MA165	DIODE	1	
D6011		MA165	DIODE	1	
D6012		MA165	DIODE	1	
D6017		MA165	DIODE	1	
D6019		MA4150M	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D6020	MA4110M	DIODE	1	
D6021	AK04V2	DIODE	1	
D6022	MA165	DIODE	1	
D6023	MA165	DIODE	1	
D6024	MA165	DIODE	1	
D6028	MA165	DIODE	1	
D6029	MA165	DIODE	1	
D6030	MA4056L	DIODE	1	
D7550	MA165	DIODE	1	
D7558	MA165	DIODE	1	
D7559	MA165	DIODE	1	
		DELAY LINE		
DL802	EFDHR124A13S	DELAY LINE	1	
		FILTERS		
FL301	ELB4M022	FILTER	1	
FL302	VLF0499	FILTER	1	
FL303	VLF0567	FILTER	1	
FL801	VLF0299	FILTER	1	
FL851	VLF0143	FILTER	1	
FL3901	ELB4H020	FILTER	1	
FL4501	VLF0406	FILTER	1	
FL4502	VLF0406	FILTER	1	
FL4503	VLF0442	FILTER	1	
FL4504	VLF0594	FILTER	1	
FL4505	VLF0441	FILTER	1	
		ICS		
IC201	UPD6160CA606	IC	1	
IC202	MN15312VYM	IC	1	
IC203	UPC358C	IC	1	
IC204	UPD4069UBC	IC	1	
IC301	VEFH03A	HIC	1	
IC303	MSM6965-3RS	IC	1	
IC801	VEFH04A	HIC	1	
IC851	BA7025L	IC	1	
IC2001	BA6430S	IC	1	
IC2801	BA6305	IC	1	
IC2802	UPD4013BC	IC	1	
IC2803	UPC393C	IC	1	
IC2804	UPC358C	IC	1	
IC3901	TA7348P	IC	1	
IC3902	BA7004	IC	1	
IC3951	UPD4001BC	IC	1	
IC4001	BA7766S	IC	1	
IC4101	NJM4560DD	IC	1	
IC4501	UPC2306GH	IC	1	
IC4502	UPC2305GH	IC	1	
IC4503	TC9205F	IC	1	
IC4901	AN6558	IC	1	
IC4951	UPD4052BC	IC	1	
IC4952	AN6558	IC	1	
IC4953	M5201L	IC	1	
IC6001	MN15362VBX	IC	1	
IC6002	UPC393C	IC	1	
IC6003	UPD4510BC	IC	1	
IC6004	MN1280 R	IC	1	
IC7551	AN5043	IC	1	
IC7552	AN6913	IC	1	
IC7553	UPD4066BC	IC	1	
		COILS		
L301	VLQEL05F101K	COIL 100UH	1	
L302	VLQEL05F220K	COIL 22UH	1	
L303	VLQEL05F101K	COIL 100UH	1	
L304	VLQEL05F101K	COIL 100UH	1	
L306	VLQEL05F101K	COIL 100UH	1	
L307	VLQEL05F151K	COIL 150UH	1	
L308	VLQEL05F270K	COIL 27UH	1	
L309	VLQEL05F101K	COIL 100UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L310	VLQEL05F101K	COIL 100UH	1	
L311	VLQEL05F2R2K	COIL 2.2UH	1	
L804	VLQEL05F150K	COIL 15UH	1	
L805	VLQEL05F101K	COIL 100UH	1	
L806	VLQEL05F681K	COIL 680UH	1	
L808	VLQEL05F470K	COIL 47UH	1	
L809	VLQEL05F331K	COIL 330UH	1	
L810	VLQEL05F101K	COIL 100UH	1	
L811	VLQEL05F470K	COIL 47UH	1	
L812	VLQEL05F681K	COIL 680UH	1	
L851	VLQEL05F101K	COIL 100UH	1	
L2001	VLQEL05F102K	COIL 1000UH	1	
L3001	VLQEL05F101K	COIL 100UH	1	
L3002	VLQEL05F101K	COIL 100UH	1	
L3003	VLQEL05F120K	COIL 12UH	1	
L3004	VLQEL05F101K	COIL 100UH	1	
L3005	VLQEL05F6R8K	COIL 6.8UH	1	
L3006	VLQEL05F3R3K	COIL 3.3UH	1	
L3901	VLQEL05F101K	COIL 100UH	1	
L3902	VLQEL05F101K	COIL 100UH	1	
L4001	VLQEL07F822J	COIL 8200UH	1	
L4002	VLQEL05F471K	COIL 470UH	1	
L4501	VLQEL05F101K	COIL 100UH	1	
L4502	VLQEL05F101K	COIL 100UH	1	
L4503	VLQEL05F4R7K	COIL 4.7UH	1	
L4504	VLQEL05F101K	COIL 100UH	1	
		CONNECTORS		
P201	VJS1904	CONNECTOR (FEMALE)	1	
P501	VJS1741T	CONNECTOR (FEMALE)	1	
P502	VJS1236T	CONNECTOR (FEMALE)	1	
P1504	VJS1745T	CONNECTOR (FEMALE)	1	
P2002	VJP1932T	CONNECTOR (MALE)	1	
P2901	VJS1738T	CONNECTOR (FEMALE)	1	
P4001	VJP1233T	CONNECTOR(MALE) 6P	1	
P4002	VJP1230T	CONNECTOR(MALE) 3P	1	
P6002	VJS2175	CONNECTOR (FEMALE)	1	
P6003	VJP1239T	CONNECTOR(MALE) 12P	1	
P6004	VJS2230	CONNECTOR (FEMALE)	1	
P7302	VJS1867	CONNECTOR (FEMALE)	1	
P7801	VJS1234T	CONNECTOR (FEMALE)	1	
		TRANSISTORS		
Q201	2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q202	2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q203	2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q204	2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q205	2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q206	2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q208	2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q301	2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q302	2SC2295	TRANSISTOR CHIP	1	(B,C)
Q303	2SC2295	TRANSISTOR CHIP	1	(B,C)
Q304	2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q804	2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q1101	2SC1384	TRANSISTOR	1	(S) NV-H75EV
Q2001	2SB641	TRANSISTOR	1	(Q,R)
Q2002	2SD636	TRANSISTOR	1	(Q,R)
Q2801	2SD636	TRANSISTOR	1	
Q2802	2SB641	TRANSISTOR	1	(Q,R,S)
Q2803	2SD636	TRANSISTOR	1	
Q2804	2SD636	TRANSISTOR	1	
Q2805	2SD636	TRANSISTOR	1	
Q2806	2SD636	TRANSISTOR	1	
Q2807	2SD636	TRANSISTOR	1	
Q2808	2SD636	TRANSISTOR	1	
Q3001	2SB641	TRANSISTOR	1	(Q,R)
Q3003	2SD636	TRANSISTOR	1	(Q,R)
Q3004	2SC2206	TRANSISTOR	1	(B,C)
Q3005	2SD636	TRANSISTOR	1	(Q,R)
Q3050	2SD636	TRANSISTOR	1	(Q,R)
Q3901	2SC2206	TRANSISTOR	1	(B,C)
Q3951	2SB641	TRANSISTOR	1	(Q,R,S)

Free service manuals
Gratis schema's

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q4001		2SD638	TRANSISTOR	1	(R)
Q4003		2SD636	TRANSISTOR	1	(Q,R)
Q4004		2SD636	TRANSISTOR	1	(Q,R)
Q4005		2SD636	TRANSISTOR	1	(Q,R)
Q4501		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q4502		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q4505		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q4506		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q4507		2SC2295	TRANSISTOR CHIP	1	(B,C)
Q4508		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q4901		2SD636	TRANSISTOR	1	(Q,R,S,T)
Q4951		2SD636	TRANSISTOR	1	(Q,R,S)
Q6007		2SB790	TRANSISTOR	1	(R,S)
Q6009		2SB790	TRANSISTOR	1	(R,S)
Q6016		2SD1275P	TRANSISTOR	1	
Q6017		2SD893	TRANSISTOR	1	(Q,R)
Q6018		2SD973	TRANSISTOR	1	(Q,R,S)
Q6019		2SD638	TRANSISTOR	1	(Q,R)
Q7553		2SD636	TRANSISTOR	1	
			COMBINATION PARTS		
QR201		DTA144EK	TRANSISTOR-RESISTOR	1	
QR202		DTA144EK	TRANSISTOR-RESISTOR	1	
QR203		UN2212	TRANSISTOR-RESISTOR	1	
QR852		UN1213	TRANSISTOR-RESISTOR	1	
QR853		UN1213	TRANSISTOR-RESISTOR	1	
QR1101		UN1211	TRANSISTOR-RESISTOR	1	
QR1102		UN1211	TRANSISTOR-RESISTOR	1	NV-H75EV
QR2002		UN1212	TRANSISTOR-RESISTOR	1	
QR2007		UN1213	TRANSISTOR-RESISTOR	1	
QR2801		UN1213	TRANSISTOR-RESISTOR	1	
QR2802		UN1213	TRANSISTOR-RESISTOR	1	
QR2803		UN1213	TRANSISTOR-RESISTOR	1	
QR2804		UN1211	TRANSISTOR-RESISTOR	1	
QR3001		UN1111	TRANSISTOR-RESISTOR	1	
QR3002		UN1212	TRANSISTOR-RESISTOR	1	
QR3003		UN1113	TRANSISTOR-RESISTOR	1	
QR3004		UN1214	TRANSISTOR-RESISTOR	1	
QR3010		UN1213	TRANSISTOR-RESISTOR	1	OR UN4213
QR4001		UN1113	TRANSISTOR-RESISTOR	1	
QR4002		UN1213	TRANSISTOR-RESISTOR	1	
QR4003		UN1112	TRANSISTOR-RESISTOR	1	
QR4004		UN1112	TRANSISTOR-RESISTOR	1	
QR4006		UN1112	TRANSISTOR-RESISTOR	1	
QR4007		UN1211	TRANSISTOR-RESISTOR	1	
QR4501		UN221E	TRANSISTOR-RESISTOR	1	
QR4503		UN2213	TRANSISTOR-RESISTOR	1	
QR4504		UN2213	TRANSISTOR-RESISTOR	1	
QR4505		UN2112	TRANSISTOR-RESISTOR	1	
QR4506		UN2213	TRANSISTOR-RESISTOR	1	
QR4507		UN2213	TRANSISTOR-RESISTOR	1	
QR4508		UN2213	TRANSISTOR-RESISTOR	1	
QR6001		UN1212	TRANSISTOR-RESISTOR	1	
QR6003		UN1213	TRANSISTOR-RESISTOR	1	
QR6004		UN1213	TRANSISTOR-RESISTOR	1	
QR6005		UN1213	TRANSISTOR-RESISTOR	1	
QR6006		UN1111	TRANSISTOR-RESISTOR	1	
QR6008		UN1111	TRANSISTOR-RESISTOR	1	
QR6009		UN1210	TRANSISTOR-RESISTOR	1	
QR6011		UN1212	TRANSISTOR-RESISTOR	1	
QR6012		UN1113	TRANSISTOR-RESISTOR	1	
QR6013		UN1213	TRANSISTOR-RESISTOR	1	
QR7510		UN2113	TRANSISTOR-RESISTOR	1	
QR7556		UN1213	TRANSISTOR-RESISTOR	1	
QR7557		UN1213	TRANSISTOR-RESISTOR	1	
QR7559		UN1213	TRANSISTOR-RESISTOR	1	
QR7560		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R201		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R202		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R203		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R204		ERJ6GMYJ221	CHIP 1/16W 220	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R205		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R206		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R207		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R208		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R209		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R210		ERJ6GMYJ274	CHIP 1/16W 270K	1	
R211		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R212		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R213		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R214		ERJ6GMYJ224	CHIP 1/16W 220K	1	
R215		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R216		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R217		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R218		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R219		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R220		ERJ6GMYJ274	CHIP 1/16W 270K	1	
R222		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R223		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R224		ERJ6GMYJ561	CHIP 1/16W 560	1	
R225		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R226		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R227		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R228		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R229		ERJ6GMYJ221	CHIP 1/16W 220	1	
R230		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R231		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R232		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R233		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R234		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R235		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R236		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R237		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R238		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R239		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R240		ERJ6GMYG333	CHIP 1/16W 33K	1	
R241		ERJ6GMYJ684	CHIP 1/16W 680K	1	
R242		ERJ6GMYJ184	CHIP 1/16W 180K	1	
R243		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R244		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R245		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R246		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R247		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R248		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R249		ERJ6GMYG472	CHIP 1/16W 4.2K	1	
R250		ERJ6GMYJ821	CHIP 1/16W 820	1	
R251		ERJ6GMYJ824	CHIP 1/16W 820K	1	
R252		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R253		ERJ6GMYJ684	CHIP 1/16W 680K	1	
R256		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R257		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R258		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R259		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R260		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R261		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R266		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R267		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R268		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R269		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R274		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R275		ERDS2TJ334	C.RESISTOR 1/4W 330K	1	
R301		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/16W 390	1	
R303		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/16W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R311		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R312		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/16W 470	1	
R325		ERJ6GMYJ151	CHIP 1/16W 150	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R326		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R334		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R335		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R338		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R339		ERJ6GMYJ101	CHIP 1/16W 100	1	
R814		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R815		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R818		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R821		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R822		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R823		ERJ6GMYJ271	CHIP 1/16W 270	1	
R824		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R826		ERDS2TJ681	C.RESISTOR 1/4W 680	1	
R851		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R852		ERDS2TJ390	C.RESISTOR 1/4W 39	1	
R853		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R854		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R855		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R856		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R858		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1101		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	NV-H75EV
R1102		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2001		ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2002		ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2003		ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2004		ERX12SJ1R0	M.RESISTOR 1/2W 1	1	
R2005		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2006		ERJ6GMYG512	CHIP 1/16W 5.1K	1	
R2007		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2008		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R2009		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2010		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R2018		ERDS2TJ330	C.RESISTOR 1/4W 33	1	
R2029		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/16W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2800		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R2801		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2802		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2803		ERJ6GMYJ561	CHIP 1/16W 560	1	
R2804		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R2805		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R2806		ERJ6GMYJ221	CHIP 1/16W 220	1	
R2807		ERJ6GMYJ823	CHIP 1/16W 82K	1	
R2808		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2809		ERJ6GMYJ750	CHIP 1/16W 75	1	
R2810		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R2811		EROS2CKG1102	M.RESISTOR 1/4W 11K	1	
R2812		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R2813		ERJ6GMYJ221	CHIP 1/16W 220	1	
R2814		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2815		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R2816		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R2817		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R2818		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2819		EROS2CKG1203	M.RESISTOR 1/4W 120K	1	
R2820		ERJ6GMYJ221	CHIP 1/16W 220	1	
R2821		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2822		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R2823		ERJ6GMYJ273	CHIP 1/16W 27K	1	
R2824		ERJ6GMYJ154	CHIP 1/16W 150K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2825		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2826		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R2827		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R2828		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2829		ERJ6GMYJ681	CHIP 1/16W 680	1	
R2830		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2831		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R2832		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R2833		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2834		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2835		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R2836		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2837		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2838		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R2839		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2840		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3001		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3004		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R3006		ERJ6GMYJ821	CHIP 1/16W 820	1	
R3008		ERJ6GMYJ821	CHIP 1/16W 820	1	
R3010		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R3013		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R3016		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R3018		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R3050		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R3052		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3060		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3061		ERJ6GMYJ561	CHIP 1/16W 560	1	
R3062		ERJ6GMYJ471	CHIP 1/16W 470	1	
R3063		ERJ6GMYJ101	CHIP 1/16W 100	1	
R3901		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R3902		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R3903		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3904		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3905		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R3906		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R3907		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R3909		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R3910		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R3911		ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1	
R3912		ERDS2TJ392	C.RESISTOR 1/4W 3.9K	1	
R3913		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R3914		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R3915		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R3951		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R3952		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R3953		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R3954		ERDS2TJ684	C.RESISTOR 1/4W 680K	1	
R3955		ERDS2TJ684	C.RESISTOR 1/4W 680K	1	
R4001		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/16W 10	1	
R4003		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R4004		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4005		ERJ6GMYJ181	CHIP 1/16W 180	1	
R4007		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R4008		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4010		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R4012		ERJ6GMYJ331	CHIP 1/16W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/16W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4016		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R4019		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R4020		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4022		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/16W 47K	1	
R4024		ERJ6GMYG104	CHIP 1/16W 100K	1	
R4025		ERJ6GMYG104	CHIP 1/16W 100K	1	
R4026		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R4027		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R4034		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R4036		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4051		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R4053		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R4100		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4101		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4104		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4105		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4106		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4107		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4108		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4111		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4112		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R4113		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R4501		ERJ6GMYG562	CHIP 1/16W 5.6K	1	
R4502		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4503		ERJ6GMYG103	CHIP 1/16W 10K	1	
R4504		ERJ6GMYG122	CHIP 1/16W 1.2K	1	
R4505		ERJ6GMYG622	CHIP 1/16W 6.2K	1	
R4506		ERJ6GMYG681	CHIP 1/16W 680	1	
R4507		ERJ6GMYG242	CHIP 1/16W 2.4K	1	
R4508		ERJ6GMYG303	CHIP 1/16W 30K	1	
R4509		ERJ6GMYG562	CHIP 1/16W 5.6K	1	
R4510		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4511		ERJ6GMYG183	CHIP 1/16W 18K	1	
R4512		ERJ6GMYG912	CHIP 1/16W 9.1K	1	
R4513		ERJ6GMYG163	CHIP 1/16W 16K	1	
R4514		ERJ6GMYG103	CHIP 1/16W 10K	1	
R4515		ERJ6GMYG112	CHIP 1/16W 1.1K	1	
R4516		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R4517		EROS2CKG3001	M.RESISTOR 1/4W 3K	1	
R4518		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R4519		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R4520		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R4521		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R4551		ERJ6GMYG562	CHIP 1/16W 5.6K	1	
R4552		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4553		ERJ6GMYG103	CHIP 1/16W 10K	1	
R4554		ERJ6GMYG122	CHIP 1/16W 1.2K	1	
R4555		ERJ6GMYG622	CHIP 1/16W 6.2K	1	
R4556		ERJ6GMYG681	CHIP 1/16W 680	1	
R4557		ERJ6GMYG242	CHIP 1/16W 2.4K	1	
R4558		ERJ6GMYG303	CHIP 1/16W 30K	1	
R4559		ERJ6GMYG562	CHIP 1/16W 5.6K	1	
R4560		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4561		ERJ6GMYG183	CHIP 1/16W 18K	1	
R4562		ERJ6GMYG912	CHIP 1/16W 9.1K	1	
R4563		ERJ6GMYG163	CHIP 1/16W 16K	1	
R4564		ERJ6GMYG103	CHIP 1/16W 10K	1	
R4565		ERJ6GMYG112	CHIP 1/16W 1.1K	1	
R4566		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R4567		EROS2CKG2201	M.RESISTOR 1/4W 2.2K	1	
R4569		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R4570		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R4571		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R4601		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R4602		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R4607		ERJ6GMYG123	CHIP 1/16W 1.2K	1	
R4608		ERJ6GMYG303	CHIP 1/16W 30K	1	
R4609		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R4612		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4613		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R4614		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R4615		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4616		ERJ6GMYJ184	CHIP 1/16W 180K	1	
R4617		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R4618		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R4619		ERJ6GMYJ271	CHIP 1/16W 270	1	
R4620		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R4621		ERJ6GMYJ221	CHIP 1/16W 220	1	
R4622		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4623		ERJ6GMYJ184	CHIP 1/16W 180K	1	
R4624		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R4625		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R4626		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R4627		ERJ6GMYJ271	CHIP 1/16W 270	1	
R4628		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R4632		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R4633		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R4634		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4635		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R4636		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R4637		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R4638		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R4639		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R4640		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R4641		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R4642		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R4643		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R4644		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R4645		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4646		ERJ6GMYJ334	CHIP 1/16W 330K	1	
R4648		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4680		ERJ6GMYJ184	CHIP 1/16W 180K	1	
R4901		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R4902		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4903		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4906		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R4907		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R4910		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4911		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4912		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R4913		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R4914		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R4915		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R4919		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
R4920		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
R4922		EROS2CKG2201	M.RESISTOR 1/4W 2.2K	1	
R4923		EROS2CKG2201	M.RESISTOR 1/4W 2.2K	1	
R4924		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R4925		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R4926		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R4927		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R4928		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4929		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4930		ERDS2TJ123	C.RESISTOR 1/4W 12K	1	
R4931		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4932		ERDS2TJ123	C.RESISTOR 1/4W 12K	1	
R4933		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4952		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R4953		EROS2CKG2202	M.RESISTOR 1/4W 22K	1	
R4954		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R4955		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R4956		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R4957		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R4960		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4961		EROS2CKG2202	M.RESISTOR 1/4W 22K	1	
R4962		EROS2CKG2202	M.RESISTOR 1/4W 22K	1	
R4963		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R4965		EROS2CKG2202	M.RESISTOR 1/4W 22K	1	
R4967		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R4968		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4969		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R4970		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R4971		ERDS2TJ684	C.RESISTOR 1/4W 680K	1	
R4972		ERDS2TJ684	C.RESISTOR 1/4W 680K	1	
R4973		ERDS2TJ683	C.RESISTOR 1/4W 68K	1	
R4975		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R4978		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R4985		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R4986		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R4987		ERDS2TJ124	C.RESISTOR 1/4W 120K	1	
R4988		ERDS2TJ274	C.RESISTOR 1/4W 270K	1	
R4989		ERDS2TJ124	C.RESISTOR 1/4W 120K	1	
R4990		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4991		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4992		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4993		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R4994		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
R4995		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R4996		EROS2CKG1001	M.RESISTOR 1/4W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4997		EROS2CKG3901	M.RESISTOR 1/4W 3.9K	1	
R4998		EROS2CKG1001	M.RESISTOR 1/4W 1K	1	
R4999		EROS2CKG3901	M.RESISTOR 1/4W 3.9K	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R6005		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	<!>
R6007		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/16W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/16W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/16W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R6016		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6017		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6019		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R6022		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6025		ERJ6GMYJ824	CHIP 1/16W 820K	1	
R6026		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R6027		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/16W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/16W 560	1	
R6030		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R6031		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R6032		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R6033		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R6034		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R6035		ERJ6GMYJ101	CHIP 1/16W 100	1	
R6036		ERJ6GMYJ101	CHIP 1/16W 100	1	
R6037		ERJ6GMYJ101	CHIP 1/16W 100	1	
R6038		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/16W 390	1	
R6042		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R6045		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R6046		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R6067		ERJ6GMYJ101	CHIP 1/16W 100	1	
R6068		ERDS1SVJ332		1	
R6069		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/16W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R6073		ERJ6GMYJ271	CHIP 1/16W 270	1	
R6074		ERJ6GMYJ121	CHIP 1/16W 120	1	
R6075		ERG2SJ180	M.RESISTOR 2W 18	1	
R6076		ERJ6GMYJ181	CHIP 1/16W 180	1	
R6079		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R6080		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R6081		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6083		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R6084		ERJ6GMYJ561	CHIP 1/16W 560	1	
R6085		ERJ6GMYJ561	CHIP 1/16W 560	1	
R6087		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R6088		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R6089		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R6090		ERJ6GMYJ821	CHIP 1/16W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6093		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R7551		ERG1SJ152E		1	
R7555		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7557		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R7558		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R7559		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7560		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7561		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R7562		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7565		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7566		ERJ6GMYJ334	CHIP 1/16W 330K	1	
R7567		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R7568		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7576		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7577		ERJ6GMYJ103	CHIP 1/16W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7578		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7579		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7580		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7581		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R7582		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R7583		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7584		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R7585		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7586		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R7589		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7590		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7595		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
			SWITCH		
S3901		VSS0236	SWITCH	1	
			TRANSFORMERS		
T851		ELM7Q207A	TRANSFORMER	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	
VR803		EVND1AA00B14	V.RESISTOR 10K	1	
VR2001		EVND3AA00B54	V.RESISTOR 50K	1	
VR2002		EVND3AA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVND3AA00B15	V.RESISTOR 100K	1	
VR2013		EVN38CA00B23	V.RESISTOR 2K	1	
VR3012		EVND3AA00B52	V.RESISTOR 500	1	
VR4001		EVND3AA00B14	V.RESISTOR 10K	1	
VR4002		EVND3AA00B25	V.RESISTOR 200K	1	
VR4004		EVND3AA00B53	V.RESISTOR 5K	1	
VR4005		EVND3AA00B53	V.RESISTOR 5K	1	
VR4501		EVN3ACA00B13	V.RESISTOR 1K	1	
VR4502		EVND3AA00B14	V.RESISTOR 10K	1	
VR4503		EVND3AA00B23	V.RESISTOR 2K	1	
VR4504		EVND1AA00B24	V.RESISTOR 20K	1	
VR4505		EVND1AA00B14	V.RESISTOR 10K	1	
VR4507		EVND3AA00B14	V.RESISTOR 10K	1	
VR4508		EVND1AA00B24	V.RESISTOR 20K	1	
VR4509		EVN3ACA00B13	V.RESISTOR 1K	1	
VR4510		EVN38CA00B15	V.RESISTOR 100K	1	
VR4512		EVND1AA00B13	V.RESISTOR 1K	1	
			CRYSTAL OSCILLATORS		
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X801		VSX0162A	CRYSTAL OSCILLATOR	1	
X3901		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0204	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	CRYSTAL OSCILLATOR	1	
			MISELLANEOUS		
		VMC0075	HEAT SINK FIX SPRING	1	
		VSC1689	HEAT SINK	1	
		VSC1068	HEAT SINK	1	
		VWJ0265	FLEXIBLE CABLE 5P	1	
		VJF0045	WIRE SADLE	1	
		VMZ0960	HEAT SINK BARRIER	1	
		VJF0236	C.B. SUPPORT	4	
		VEJ0601	REAR JACK	1	
		VGU2707	TEST ON/OFF KNOB	1	
		VMX0985	SPACER	1	
		VMX0550	RUBBER SPACER	3	
	■	VEP05113B	HEAD AMP C.B.A.		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C501		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C502		ECUM1H820JCN	CHIP 50V 82P	1	
C503		ECUM1H181JC	CHIP 50V 180P	1	
C504		ECUM1H470JCN	CHIP 50V 47P	1	
C505		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C506		ECUM1E473ZFN	CHIP 25V 0.047U	1	
C507		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C508		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C509		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C510		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C511		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C513		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C514		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C515		ECUM1H102KBN	CHIP 50V 1000P	1	
C516		ECUM1H150JCN	CHIP 50V 15P	1	
C517		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C518		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C519		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C520		ECUM1H150JCN	CHIP 50V 15P	1	
C521		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C522		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C523		ECUM1H150JCN	CHIP 50V 15P	1	
C524		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C526		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C527		ECUM1H102KBN	CHIP 50V 1000P	1	
C528		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C529		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C530		ECUM1E473ZFN	CHIP 25V 0.047U	1	
C531		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C533		ECUM1H560JCN	CHIP 50V 56P	1	
C534		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C537		ECUM1H150JCN	CHIP 50V 15P	1	
C538		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C539		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C551		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C552		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C553		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C554		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C555		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C556		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C557		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C558		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C559		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C560		ECUM1H122KBN	CHIP 50V 1200P	1	
C561		ECUM1H122KBN	CHIP 50V 1200P	1	
C562		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C563		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C564		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C565		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C566		ECUM1H101JCN	CHIP 50V 100P	1	
C567		ECUM1H101JCN	CHIP 50V 100P	1	
			ICS		
IC501		AN3224K	IC	1	
IC502		AN3311S	IC	1	
IC551		UPC2304CA	IC	1	
			COILS		
L501		VLQEL05F101K	COIL 100UH	1	
L502		VLQEL05F680K	COIL 68UH	1	
L503		VLQEL05F151K	COIL 150UH	1	
L505		VLQEL05F101K	COIL 100UH	1	
L507		VLQEL05R270J	COIL 27UH	1	
L551		VLQEL05F101K	COIL 100UH	1	
L552		VLQEL05F101K	COIL 100UH	1	
L580		VLQ0127	COIL	1	
L581		VLQ0127	COIL	1	
			CONNECTORS		
P002		VJS1927	CONNECTOR (FEMALE)	1	
P501		VJP1248T	CONNECTOR(MALE) 8P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P502		VJP1236T	CONNECTOR(MALE) 9P	1	
			TRANSISTOR		
Q501		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
			RESISTORS		
R501		ERJ6GMYJ561	CHIP 1/16W 560	1	
R502		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R503		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R504		ERJ6GMYJ331	CHIP 1/16W 330	1	
R505		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R506		ERJ6GMYJ471	CHIP 1/16W 470	1	
R508		ERJ6GMYJ100	CHIP 1/16W 10	1	
R509		ERJ6GMYJ100	CHIP 1/16W 10	1	
R510		ERJ6GMYJ561	CHIP 1/16W 560	1	
R511		ERJ6GMYJ821	CHIP 1/16W 820	1	
R512		ERJ6GMYJ821	CHIP 1/16W 820	1	
R515		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R516		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R517		ERJ6GMYJ391	CHIP 1/16W 390	1	
R522		ERJ6GMYJ561	CHIP 1/16W 560	1	
R523		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R524		ERJ6GMYJ334	CHIP 1/16W 330K	1	
R525		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R526		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R551		ERJ6GMYJ681	CHIP 1/16W 680	1	
R552		ERJ6GMYJ221	CHIP 1/16W 220	1	
R553		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R554		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R555		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R556		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R559		ERJ6GMYJ100	CHIP 1/16W 10	1	
R560		ERJ6GMYJ100	CHIP 1/16W 10	1	
R580		ERJ6GMYJ471	CHIP 1/16W 470	1	
R581		ERJ6GMYJ471	CHIP 1/16W 470	1	
			VARIABLE RESISTORS		
VR501		EVND1AA00B23	V.RESISTOR 2K	1	
VR502		EVND1AA00B13	V.RESISTOR 1K	1	
			MISCELLANEOUS		
		VSC2204	SHIELD CASE (TOP)	1	
		VSC2205	SHIELD CASE (BOTTOM)	1	
		VSC1834	SHIELD CASE (MAIN)	1	
	■	VEP06448A	OPERATION C.B.A.		
			DIODES		
D6501		LN28RCPP	LED	1	
D6502		LN38GCPPSVT	LED	1	
D6503		MA165	DIODE	1	
D6508		MA165	DIODE	1	
D6510		MA165	DIODE	1	
D6511		MA165	DIODE	1	
D6513		MA165	DIODE	1	
			JACK		
J6301		VJJ0148	HEAD PHONE JACK	1	
			CONNECTORS		
P6501		VJP1249T	CONNECTOR(MALE) 9P	1	
P6502		VJP1252T	CONNECTOR(MALE) 12P	1	
P6505		VJP1230T	CONNECTOR(MALE) 3P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COMBINATION PARTS		
QR6510		UN1213	TRANSISTOR-RESISTOR	1	
QR6511		UN1113	TRANSISTOR-RESISTOR	1	
QR6512		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6501		ERJ6GMYJ271	CHIP 1/16W 270	1	
R6503		ERJ6GMYJ102	CHIP 1/16W 1K	1	
			SWITCHS		
SW6501		EVQQS307K	SWITCH	1	
SW6509		EVQQS307K	SWITCH	1	
SW6510		ESD14314	SWITCH	1	
SW6512		VSS0162	SWITCH	1	
SW6513		VSS0236	SWITCH	1	
			VARIABLE RESISTORS		
VR6501		EVUFSAE04B15	V.RESISTOR 100K	1	
VR6502		EVUFSAE04B15	V.RESISTOR 100K	1	
VR6503		EVUJ16E04B24	V.RESISTOR 20K	1	
VR6504		EVJVGAE05C23	V.RESISTOR 2K	1	
			MISCELLANEOUS		
		VGU3364	AUDIO SLIDE KNOB	1	
		VGU3435	SW KNOB	2	
		VMD1047	LED HOLDER	2	
		VJF0521	JACK HOLDER	1	
	■	VEP07420A	TIMER C.B.A.		
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMER 30P	1	
C7502		ECUM1H080DCN	CHIP 50V 8P	1	
C7503		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C7504		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7505		ECUM1H220JCN	CHIP 50V 22P	1	
C7506		ECUM1H330JCN	CHIP 50V 33P	1	
C7507		ECEA1HK100	E.CAPACITOR 50V 10U	1	
C7508		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7509		ECUM1H331KBN	CHIP 50V 330P	1	
C7510		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C7511		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7512		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7514		ECUM1E104ZFN	CHIP 25V 0.1U	1	
C7515		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C7517		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C7519		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C7520		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C7521		ECUM1H102KBN	CHIP 50V 1000P	1	
			DIODES		
D6701		PN323B	PHOTO DIODE	1	
D7501		11ES1	DIODE	1	
D7502		MA73	DIODE	1	
D7503		MA4068	DIODE	1	
D7504		MA73	DIODE	1	
D7505		MA73	DIODE	1	
D7506		MA73	DIODE	1	
D7507		MA73	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D7508		MA73	DIODE	1	
D7509		MA73	DIODE	1	
D7510		MA73	DIODE	1	
D7511		MA73	DIODE	1	
D7512		MA73	DIODE	1	
D7513		MA73	DIODE	1	
D7514		MA73	DIODE	1	
D7517		LN81RCPHL	LED	1	
D7518		LN81RCPHL	LED	1	
D7519		LN81RCPHL	LED	1	
D7522		MA73	DIODE	1	
D7534		MA73	DIODE	1	
D7538		MA73	DIODE	1	
			DISPLAY TUBE		
DP7501		VSL0109	DISPLAY TUBE	1	
			IC		
IC6701		UPC1490HA	IC	1	
IC7501		MN15283VYH	IC	1	
IC7502		MN1220	IC	1	
IC7503		MN1280P	IC	1	
IC7504		BA6800AS	IC	1	
IC7505		MN1280 T	IC	1	
			COIL		
L7501		VLQEL05F221K	COIL 220UH	1	
			CONNECTORS		
P7501		VJS1632	CONNECTOR(FEMALE)	1	
P7502		VJS1837	CONNECTOR (FEMALE)	1	
P7503		VJS1729	CONNECTOR(FEMALE)	1	
P7504		VJS1937	CONNECTOR (FEMALE)	1	
P7505		VJP1249T	CONNECTOR(MALE) 9P	1	
P7507		VJP1246T	CONNECTOR(MALE) 6P	1	
P7508		VJP1244T	CONNECTOR(MALE) 4P	1	NV-H75EV
			TRANSIATOR		
Q7501		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
			COMBINATION PARTS		
QR7501		UN2112	TRANSISTOR-RESISTOR	1	
QR7502		UN2213	TRANSISTOR-RESISTOR	1	
QR7503		UN2213	TRANSISTOR-RESISTOR	1	
QR7507		UN2112	TRANSISTOR-RESISTOR	1	
QR7508		UN2112	TRANSISTOR-RESISTOR	1	
QR7509		UN2213	TRANSISTOR-RESISTOR	1	
QR7510		UN2113	TRANSISTOR-RESISTOR	1	
QR7511		UN2213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R7501		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R7502		ERJ6GMYJ224	CHIP 1/16W 220K	1	
R7503		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7504		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7505		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7506		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7507		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7508		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7509		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R7510		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7511		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R7512		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R7513		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R7514		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	

3/20/15

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7515		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7516		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R7517		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7519		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R7520		ERJ6GMYG363	CHIP 1/16W 36K	1	
R7521		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7522		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7524		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7525		ERJ6GMYG332	CHIP 1/16W 3.3K	1	
R7526		ERJ6GMYG302	CHIP 1/16W 3K	1	
R7527		ERJ6GMYG302	CHIP 1/16W 3K	1	
R7528		ERJ6GMYG332	CHIP 1/16W 3.3K	1	
R7530		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7531		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7532		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7536		ERJ6GMYJ684	CHIP 1/16W 680K	1	
R7537		ERJ6GMYJ684	CHIP 1/16W 680K	1	
R7538		ERJ6GMYJ221	CHIP 1/16W 220	1	
R7540		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7541		ERJ6GMYJ331	CHIP 1/16W 330	1	
R7542		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7543		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7547		ERJ6GMYJ821	CHIP 1/16W 820	1	
R7548		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
RX7501		EXBF12E104J		1	
RX7502		EXBF11E104J		1	
			VARIABLE RESISTORS		
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	
VR7501		EWANYEX05J54	V.RESISTOR 50K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094A	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		KL04	LED SPACER	3	
		VJF0508	FIP HOLDER	1	
	■	VEP07421A	VPS C.B.A.		
			CAPACITORS		
C7801		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C7802		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C7803		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7804		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C7805		ECCF1H150JC	C.CAPACITOR 50V 15P	1	
C7806		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7807		ECKF1H471KB	C.CAPACITOR 50V 470P	1	
C7808		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C7809		ECKF1H271KB	C.CAPACITOR 50V 270P	1	
C7810		ECCF1H101JC	C.CAPACITOR 50V 100P	1	
C7811		ECCF1H180JC	C.CAPACITOR 50V 18P	1	
C7812		ECCF1H820JC	C.CAPACITOR 50V 82P	1	
C7814		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C7815		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C7816		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C7818		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7819		ECCF1H101JC	C.CAPACITOR 50V 100P	1	
C7820		ECCF1H101JC	C.CAPACITOR 50V 100P	1	
C7821		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7851		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7852		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C7853		ECCF1H330JC	C.CAPACITOR 50V 33P	1	
C7854		ECCF1H330JC	C.CAPACITOR 50V 33P	1	
C7855		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7856		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7860		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			DIODE		
D7851		MA165	DIODE	1	
			ICS		
IC7801		SAA5235	IC	1	
IC7802		SAF1135P	IC	1	
IC7851		MN158412VYR	IC	1	
IC7852		MN1280	IC	1	
			COILS		
L7801		VLQ0193	COIL	1	
L7802		VLQEL05F101K	COIL 100UH	1	
L7803		VLQEL05F101K	COIL 100UH	1	
			CONNECTORS		
P7801		VJP1234T	CONNECTOR(MALE) 7P	1	
P7802		VJP1231T	CONNECTOR(MALE) 4P	1	
			TRANSISTORS		
Q7801		2SD636	TRANSISTOR	1	(Q,R,S)
Q7802		2SB641	TRANSISTOR	1	(Q,R,S)
Q7803		2SB641	TRANSISTOR	1	(Q,R,S)
			COMBINATION PARTS		
QR7851		UN1211	TRANSISTOR-RESISTOR	1	
QR7852		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R7803		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7804		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7809		ERDS2TJ683	C.RESISTOR 1/4W 68K	1	
R7810		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R7811		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7812		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R7813		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7814		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7815		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7816		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R7817		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7818		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7851		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7860		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
			CRYSTAL OSCILLATOR		
X7801		VSX0173	CRYSTAL OSCILLATOR	1	
			FILTER		
X7851		EFOA4ROM03C2	FILTER	1	
	■	VEP07429B	TV DEMODULATOR INTERFACE C.B.A.		
			CONNECTORS		
BP7001		VJP1254	CONNECTOR (MALE)	1	
BP7002		VJP1254	CONNECTOR (MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C701		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C702		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C704		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C705		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C707		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C708		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C709		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C710		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C715		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C716		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C717		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C718		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C720		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C721		ECEA1HKR27	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C723		ECUM1H150JCN	CHIP 50V 15P	1	
C728		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C733		ECUM1H680JCN	CHIP 50V 68P	1	
C734		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	CHIP 50V 3P	1	
C743		ECUM1H270RSN	CHIP 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	CHIP 50V 68P	1	
C746		ECUM1H150UCN	CHIP 50V 15P	1	
C747		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C748		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C750		ECQB1H183JH	P.CAPACITOR 50V 0.018U	1	
C752		ECUM1H102KBN	CHIP 50V 1000P	1	
C753		ECQB1H103KH	P.CAPACITOR 50V 0.01U	1	
C754		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C755		ECUM1H390JPN	CHIP 50V 39P	1	
C756		ECUM1H120JCN	CHIP 50V 12P	1	
C758		ECQB1H103KH	P.CAPACITOR 50V 0.01U	1	
C759		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C760		ECUM1H390JPN	CHIP 50V 39P	1	
C761		ECUM1H120JCN	CHIP 50V 12P	1	
C762		ECQB1H393JH	P.CAPACITOR 50V 0.039U	1	
C763		ECUM1H102KBN	CHIP 50V 1000P	1	
C765		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C766		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C768		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C783		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7302		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7303		ECQB1H393JH	P.CAPACITOR 50V 0.039U	1	
C7304		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7305		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C7306		ECQB1H102KH	P.CAPACITOR 50V 1000P	1	
C7307		ECQB1H822KH	P.CAPACITOR 50V 8200P	1	
C7308		ECQB1H102KH	P.CAPACITOR 50V 1000P	1	
C7309		ECQB1H152JH	P.CAPACITOR 50V 1500P	1	
C7310		ECEA16Z10	E.CAPACITOR 16V 10U	1	
C7311		ECEA50ZR47	E.CAPACITOR 50V 0.47U	1	
C7312		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7313		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7314		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7315		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7316		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7317		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7318		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7319		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7320		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7321		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7323		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C7324		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C7331		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C7651		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7652		ECEA1CKN330	E.CAPACITOR 16V 33U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7653		ECQB1H392JH	P.CAPACITOR 50V 3900P	1	
C7654		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7655		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7656		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7657		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C7658		ECQP1562JZ	P.CAPACITOR 100V 5600P	1	
C7659		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
			DIODES		
D710		MA3100L	DIODE	1	
D712		MA28WA	DIODE	1	
D7301		MA151A	DIODE	1	
D7302		MA151A	DIODE	1	
			ICS		
IC701		M51366SP	IC	1	
IC751		AN5215	IC	1	
IC752		AN5215	IC	1	
IC7301		TDA3803A	IC	1	
IC7651		AN5421	IC	1	
			COILS		
L701		VLQEL05F680K	COIL 68UH	1	
L702		VLQEL05F680K	COIL 68UH	1	
L703		VLQEL05F221K	COIL 220UH	1	
L704		VLQEL05F221K	COIL 220UH	1	
L711		ELQSR47KB	COIL	1	
L712		ELQTR82XB	COIL	1	
L713		ELQTR56XB	COIL	1	
L714		ELQT1R2KB	COIL	1	
L715		VLQEL05F680K	COIL 68UH	1	
L717		VLQEL05F680K	COIL 68UH	1	
L718		VLQEL05F680K	COIL 68UH	1	
L719		VLQEL05F120K	COIL 12UH	1	
L7301		VLQEL05F102K	COIL 1000UH	1	
L7304		VTQ0014	COIL	1	
			CONNECTORS		
P701		VJS2230	CONNECTOR (FEMALE)	1	
P702		VJP2145	CONNECTOR (MALE)	1	
P703		VJP1233T	CONNECTOR(MALE) 6P	1	
			TRANSISTORS		
Q703		2SD601	TRANSISTOR CHIP	1	(S)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q711		2SC2404	TRANSISTOR CHIP	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR CHIP	1	(S,T)
Q714		2SD601	TRANSISTOR CHIP	1	
Q715		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q771		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q7301		2SD601	TRANSISTOR CHIP	1	(S,T)
Q7302		2SD1328	TRANSISTOR CHIP	1	(S,T)
Q7303		2SD1328	TRANSISTOR CHIP	1	(S,T)
			COMBINATION PARTS		
QR701		UN2214	TRANSISTOR-RESISTOR	1	
QR702		UN2213	TRANSISTOR-RESISTOR	1	
QR711		UN2212	TRANSISTOR-RESISTOR	1	
QR712		UN2212	TRANSISTOR-RESISTOR	1	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR714		UN2214	TRANSISTOR-RESISTOR	1	
QR715		UN2214	TRANSISTOR-RESISTOR	1	
QR7312		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R707		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R708		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R712		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/16W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	<!>
R715		ERJ6GEYJ271	CHIP 1/16W 270	1	
R716		ERJ6GEYJ152	CHIP 1/16W 1.5K	1	
R717		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/16W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R721		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R722		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R723		ERJ6GEYJ183	CHIP 1/16W 180K	1	
R724		ERJ6GEYJ101	CHIP 1/16W 100	1	
R725		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R728		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R729		ERJ6GEYJ471	CHIP 1/16W 470	1	
R731		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R732		ERJ6GEYJ330	CHIP 1/16W 33	1	
R733		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R734		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R736		ERJ6GEYJ471	CHIP 1/16W 470	1	
R737		ERJ6GEYJ274	CHIP 1/16W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/16W 330K	1	
R739		ERJ6GEYJ471	CHIP 1/16W 470	1	
R740		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R741		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R742		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R743		ERJ6GEYJ470	CHIP 1/16W 47	1	
R744		ERJ6GEYJ821	CHIP 1/16W 820	1	
R745		ERJ6GEYJ331	CHIP 1/16W 330	1	
R746		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R750		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R756		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/16W 2.2K	1	
R758		ERJ6GEYJ681	CHIP 1/16W 680	1	
R760		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R761		ERJ6GEYJ221	CHIP 1/16W 220	1	
R762		ERJ6GEYJ471	CHIP 1/16W 470	1	
R763		ERJ6GEYJ471	CHIP 1/16W 470	1	
R764		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R765		ERJ6GEYJ152	CHIP 1/16W 1.5K	1	
R772		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R773		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R792		ERJ6GEYJ120	CHIP 1/16W 12	1	
R7302		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R7303		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R7304		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R7305		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R7306		ERJ6GEYJ471	CHIP 1/16W 470	1	
R7307		ERJ6GEYJ104	CHIP 1/16W 100K	1	
R7308		ERJ6GEYJ273	CHIP 1/16W 27K	1	
R7309		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7310		ERJ6GEYJ474	CHIP 1/16W 470K	1	
R7311		ERJ6GEYJ562	CHIP 1/16W 5.6K	1	
R7312		ERJ6GEYJ563	CHIP 1/16W 56K	1	
R7313		ERJ6GEYJ824	CHIP 1/16W 820K	1	
R7314		ERJ6GEYJ224	CHIP 1/16W 220K	1	
R7315		ERJ6GEYJ224	CHIP 1/16W 220K	1	
R7316		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R7317		ERJ6GEYJ393	CHIP 1/16W 39K	1	
R7318		ERJ6GEYJ153	CHIP 1/16W 15K	1	
R7319		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7321		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7322		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7323		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R7324		ERJ6GEYJ821	CHIP 1/16W 820	1	
R7325		ERJ6GEYJ821	CHIP 1/16W 820	1	
R7327		ERDS2TJ751	C.RESISTOR 1/4W 750	1	
R7328		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R7329		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R7330		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R7331		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7651		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R7654		ERJ6GEYJ562	CHIP 1/16W 5.6K	1	
R7655		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R7656		ERJ6GEYJ151	CHIP 1/16W 150	1	
R7657		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R7658		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R7659		ERDS2TJ822	C.RESISTOR 1/4W 8.2K	1	
R7661		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R7662		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R7663		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R7664		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
			TRANSFORMERS		
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A	TRANSFORMER	1	
T752		EIS5EC005A	TRANSFORMER	1	
T753		EIS5EC007A	TRANSFORMER	1	
T7301		EIR7QG001B	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR701		EVM3AGA00B23	V.RESISTOR 2K	1	
VR702		EVM3AGA00B23	V.RESISTOR 2K	1	
VR741		EVN3ACA00B14	V.RESISTOR 10K	1	
VR751		EVNE4AA00B53	V.RESISTOR 5K	1	
VR7301		EVN38CA00B14	V.RESISTOR 10K	1	
VR7326		EVN38CA00B52	V.RESISTOR 500	1	
VR7328		EVN3ACA00B52	V.RESISTOR 500	1	
VR7340		EVNE4AA00B14	V.RESISTOR 10K	1	
VR7344		EVNE4AA00B14	V.RESISTOR 10K	1	
VR7660		EVN38CA00B23	V.RESISTOR 2K	1	
			FILTERS		
X710		EFCH38MSP1	SAW FILTER	1	
X711		EFCS5R5MW5	FILTER	1	
X712		EFCS5R5MS5	FILTER	1	
X713		EFCS5R5MS5	FILTER	1	
X714		ELB5A016	FILTER	1	
X751		EFCS5R74MS5B	FILTER	1	
X752		EFCS5R74MS5B	FILTER	1	
			MISCELLANEOUS		
		VSC1788	SHIELD CASE (TOP)	1	
		VSC1789	SHIELD CASE (MAIN)	1	
		VSC1888	SHIELD CASE (BOTTOM)	1	
	■	VEP01299A	POWER C.B.A.		<!>
			CAPACITORS		
C1001		VCK0040	C.CAPACITOR 220P	1	<!>
C1003		VCK0040	C.CAPACITOR 220P	1	<!>
C1004		VCK0040	C.CAPACITOR 220P	1	<!>
C1006		VCK0040	C.CAPACITOR 220P	1	<!>
C1007		VCK0044	C.CAPACITOR 1000P	1	<!>
C1009		VCK0044	C.CAPACITOR 1000P	1	<!>
C1010		VCK0044	C.CAPACITOR 1000P	1	<!>
C1012		VCK0044	C.CAPACITOR 1000P	1	<!>
C1013		VCK0044	C.CAPACITOR 1000P	1	<!>
C1015		VCK0044	C.CAPACITOR 1000P	1	<!>
C1016		ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	
C1017		ECQU2A104MN	P.CAPACITOR 250V 0.100U	1	
C1018		ECES2GU820DU		1	
C1019		ECEA2AGE010	E.CAPACITOR 10V 1U	1	
C1020		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1021		ECKD3D151KB	C.CAPACITOR 2KV 150P	1	
C1022		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1023		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1024		ECQB1H472KH	P.CAPACITOR 50V 4700P	1	
C1025		ECEA1HGE470	E.CAPACITOR 50V 47P	1	
C1026		ECEA1DFZ681X	E.CAPACITOR 20V 68U	1	
C1027		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1028		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1029		ECEA0JEE331	E.CAPACITOR 6.3V 330P	1	
C1030		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1031		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1032		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1033		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1034		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1035		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1040		ECQP1101JZ	P.CAPACITOR 125V 100P	1	
C1041		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1043		ECCD2H121K	C.CAPACITOR 100V 120P	1	
C1044		ECKF1H103KBN	C.CAPACITOR 50V 0.01U	1	
C1045		ECEA1CK100	E.CAPACITOR 16V 10U	1	
			DIODES		
D1001		ENB461D-05A	SURGE ABSORBER 460V	1	
D1002		S1WBA60	DIODE	1	
D1003		AP01CV2	DIODE	1	
D1004		MA178	DIODE	1	
D1008		MA185	DIODE	1	
D1009		ERD32-01	DIODE	1	
D1010		MA185	DIODE	1	
D1011		ERA82-004	DIODE	1	
D1012		ERA82-004	DIODE	1	
D1013		MA4130L	DIODE	1	
D1017		ERD32-01	DIODE	1	
D1018		MA2200B	DIODE	1	
D1019		MA165	DIODE	1	
D1020		VSD0002	DIODE	1	
D1021		ERA82-004	DIODE	1	
			IC		
IC1001		STK5337	IC	1	
			COIL		
L1001		ELF18D428	COIL	1	<!>
L1002		ELC07D220	COIL 22U	1	
			CONNECTOR		
P1001		VJS1962	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q1001		STRD1806	TRANSISTOR	1	<!>
Q1003		2SD1330	TRANSISTOR	1	(R,S,T)
Q1005		2SB641	TRANSISTOR	1	(Q,R,S)
Q1006		2SC1384	TRANSISTOR	1	(R,S)
			RESISTORS		
R1001		ERC12GM334		1	<!>
R1002		ERF2AK2R2	W.RESISTOR 2W 2.2	1	
R1003		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1004		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1005		ERDS2TJ563	C.RESISTOR 1/4W 56K	1	
R1006		ERDS2TJ563	C.RESISTOR 1/4W 56K	1	
R1007		ERG3SJ683	METAL OXIDE 3W 68K	1	
R1008		ERW2PKR39T	WIRE WOUND 2W 0.39	1	
R1009		ERG1SJ181	M.RESISTOR 1W 180	1	
R1012		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
R1015		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1019		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R1020		ERX1SZJR16		1	
R1021		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R1022		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSFORMER		
T1001		VLT0515	TRANSFORMER	1	<!>
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	4	<!>
	■	VEP66019D	DIGITAL SCANNER C.B.A.		
			CAPACITORS		
C01		ECEA0JK470I	E.CAPACITOR 6.3V 47U	1	
C02		ECEA1HKN010I	E.CAPACITOR 50V 1U	1	
C03		ECUM1E104ZFM	CHIP 25V 0.1U	1	
C04		ECUM1E104ZFM	CHIP 25V 0.1U	1	
C05		ECEA1HK010I	E.CAPACITOR 50V 1U	1	
C06		ECEA1AKA470I	E.CAPACITOR 10V 47U	1	
C07		ECUM1H330JCN	CHIP 50V 33P	1	
C08		ECUM1H330JCN	CHIP 50V 33P	1	
C09		ECUM1H103ZFN	CHIP 50V 0.01U	1	
			DIODES		
D01		MA151WK	DIODE	1	
D02		MA151WK	DIODE	1	
D03		MA151WK	DIODE	1	
D04		MA151WK	DIODE	1	
D05		MA153	DIODE	1	
D06		SE303AY	DIODE	1	
			ICS		
IC01		UPD49HG88022	IC	1	
IC02		UPC324G2	IC	1	
IC03		NJM78L02AA	IC	1	
			COIL		
L01		ELT3K017A	COIL	1	
			CONNECTOR		
P01		VJP1229T	CONNECTOR(MALE) 2P	1	
			TRANSISTORS		
Q01		2SB710	TRANSISTOR CHIP	1	(Q,R,S)
Q02		2SB710	TRANSISTOR CHIP	1	(Q,R,S)
Q03		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q04		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
			RESISTORS		
R01		ERJ6GMYJ470	CHIP 1/16W 47	1	
R02		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R03		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R04		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R05		ERJ6GMYJ202	CHIP 1/16W 2K	1	
R06		ERJ6GMYJ244	CHIP 1/16W 240K	1	
R07		ERJ6GMYJ162	CHIP 1/16W 1.6K	1	
R10		ERJ8GCYK106	CHIP 1/8W 10M	1	
R11		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R12		ERJ8GCYK106	CHIP 1/8W 10M	1	
R13		ERJ6GMYJ361	CHIP 1/16W 360	1	
R14		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R15		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R16		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R17		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R18		ERDS2EJ6R8	C.RESISTOR 1/4W 6.8	1	
R20		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R23		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R24		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R28		ERJ6GMY0R00		1	
			SWITCHS		
SW01		VSS0211	SWITCH	1	
SW02		VSP0221	SWITCH	1	
			CRYSTAL OSCILLATOR		
X01		VSX0199	CRYSTAL OSCILLATOR	1	
			BUZZER		
X02		VSQ0536	BUZZER	1	
	■	VEP66030A	PROGRAMMABLE REMOTE		
			CONTROLLER C.B.A.		
			DIODES		
D1		LN66	DIODE	1	
D2		MA165	DIODE	1	
D3		MA165	DIODE	1	
D4		MA165	DIODE	1	
D5		MA165	DIODE	1	
D6		MA165	DIODE	1	
D7		MA165	DIODE	1	
D8		MA165	DIODE	1	
D9		MA165	DIODE	1	
			IC		
IC1		MN6011M	IC	1	
			CAPACITORS		
C1		ECEA0GKS101	E.CAPACITOR 4V 100U	1	
C2		ECKF1H121KB	C.CAPACITOR 50V 120P	1	
C3		ECKF1H121KB	C.CAPACITOR 50V 120P	1	
C4		ECQB1H222KH	M.CAPACITOR 50V 2200P	1	
			COMBINATION PART		
QR1		UN1231	TRANSISTOR-RESISTOR	1	
			CRYSTAL OSCILLATOR		
X1		VSX0201	CRYSTAL OSCILLATOR	1	
	■	ENC87954	RF CONVERTER UNIT		<!>
			IC		
IC1		LA7051	IC		
			TRANSISTORS		
Q1		2SC2570A	TRANSISTOR		
Q2		2SC3130	TRANSISTOR		
			DIODES		
D1		MA1075	DIODE		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D2		HSM276S	DIODE		
D3		MA166	DIODE		
D4		MA166	DIODE		
D5		MA166	DIODE		
			NOTE:		
			THE OTHER PARTS FOR		
			RF CONVERTER & ANTENA		
			BOOSTER UNIT ARE NOT		
			AVAILABLE AS SPARE PARTS.		
	■	VEP00K62A	CYLINDER DRIVE C.B.A.		
			CAPACITORS		
C2901		ECEA1VSN2R2	ELECTROLYTIC 35V 2.2U	1	
C2902		ECEA1VSN2R2	ELECTROLYTIC 35V 2.2U	1	
C2903		ECEA1VSN2R2	ELECTROLYTIC 35V 2.2U	1	
C2904		ECUM1E104KBM	CHIP 25V 0.1U	1	
C2905		ECUM1E104KBM	CHIP 25V 0.1U	1	
C2906		ECUM1E104KBM	CHIP 25V 0.1U	1	
C2907		ECQV1H823JS	MYLAR 50V 0.082U	1	
C2908		ECUM1E473KBM	CHIP 25V 0.047U	1	
C2909		ECUM1E104KBM	CHIP 25V 0.1U	1	
C2910		ECEA1CKS100	ELECTROLYTIC 16V 10U	1	
C2911		ECEA1CKS100	ELECTROLYTIC 16V 10U	1	
C2912		ECEA0JKS220	ELECTROLYTIC 6.3V 22U	1	
			INTEGRATED CIRCUIT		
IC2901		AN3814K	IC	1	
			RESISTOR		
R2901		ERX12ANJR68	METAL OXIDE 1/4W 0.68	1	
			CONNECTORS		
P2901		VJP1232T		1	
P2902		VJP1927		1	
			MISCELLANEOUS		
		VSC1843	SINK HEAT	1	
		VMA6884	MAIN HOLDER	1	
	■	VEP00J52A	MECHANISM CONNECTION		
			C.B.A. CONNECTORS		
			CONNECTORS		
P1504		VJP1939	12P	1	
P1505		VJP1242T	2P	1	
			RESISTORS		
R1501		ERDS2TJ223	CARBON 1/4W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP00H31A	REEL SENSOR C.B.A.		
			PHOTO TRANSISTOR		
			INTEGRATED CIRCUITS		
IC1501		ON2170		1	
			CONNECTOR		
			CONNECTORS		
P1506		VJP1242	2P	1	
	■	VXA2689	LED C.B.A. UNIT		
			DIODES		
D1501		GL450	PHOTO DIODE	1	
			MISELLANEOUS		
		VMD0911	LED HOLDER	1	
		VWJ0254	FLEXIBLE CABLE	1	
	■	VEP00K27A	TAKEUP PHOTO Tr C.B.A.		
			CAPACITORS		
C1502		ECKW1H102KB	CERAMIC 50V 1000P	1	
			RESISTORS		
R1503		ERDS2TJ222	CARBON 1/4W 2.2K	1	
			CONNECTORS		
P1503		VJS1936		1	
P1508		VJP1242T		1	
			TRANSISTOR		
Q1502		PN150NV	PHOTO TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO TR HOLDER	1	
	■	VEP00H35A	SUPPLY PHOTO Tr C.B.A.		
			CAPACITOR		
C1501		ECKW1H102KBN	CERAMIC 50V 1000P	1	
			TRANSISTOR		
Q1501		PN150NV	PHOTO TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VMD0645	PHOTO TR HOLDER	1	